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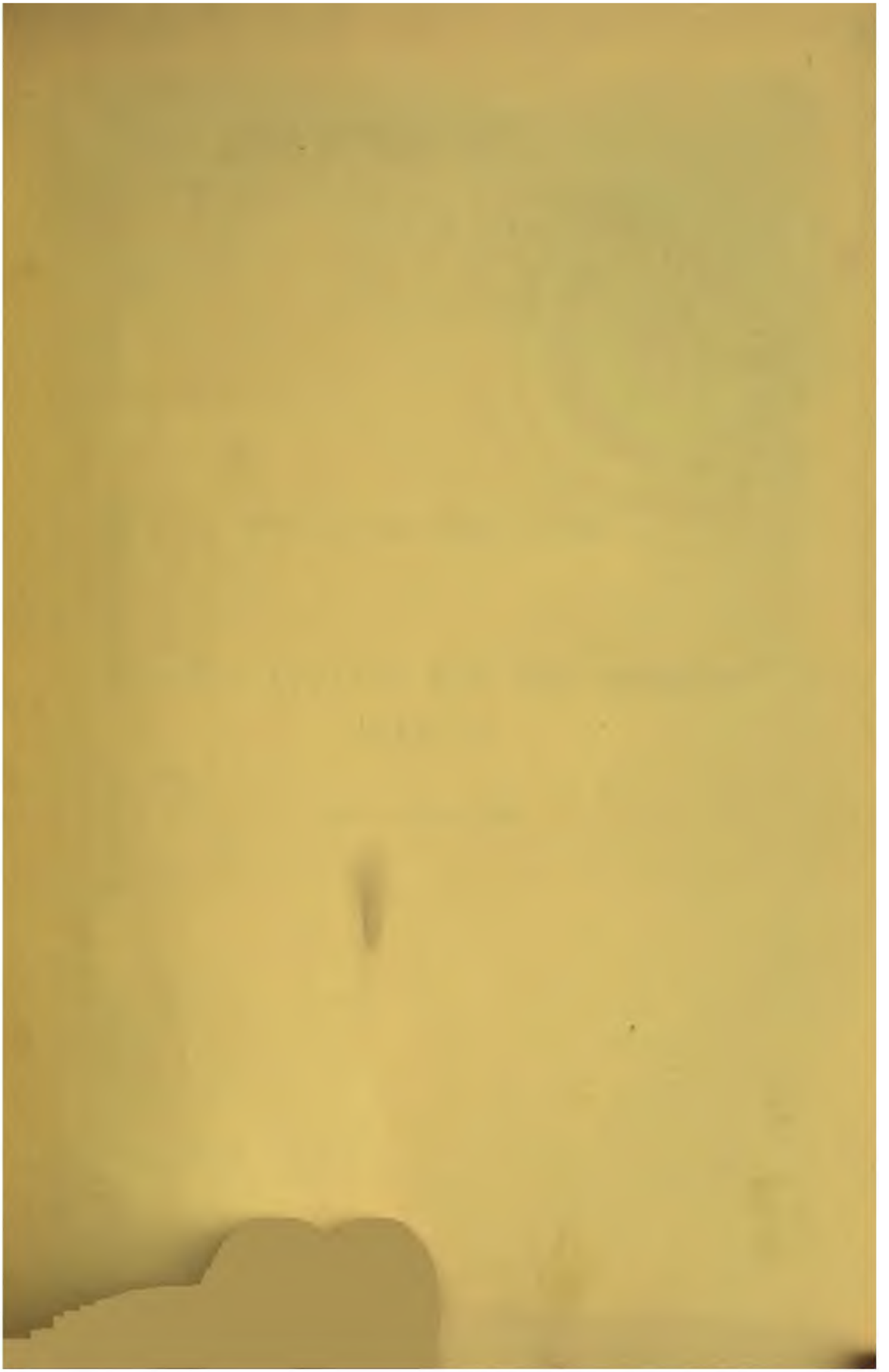

SUBJECT-MATTER INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED

FOR THE YEAR 1861.

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

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KEY OF TERMS AND PHRASES IN TITLES, &c.

	Page
Abstraction of watches,–preventing — (*see jewellery, &c.*)	193
Accidents (prevention of)	1
Accoutrements for the military — (*see wearing apparel, &c.*)	418
Acetic acid — (*see acids, &c.*)	4
Acids and vinegar	4
Acoustic instruments — (*see surgery, &c.*)	389
Actuating machinery — (*see propelling, &c.*)	300
Actuating or working rudders — (*see steering, &c.*)	382
Actuating ventilators ——— (*see ventilation, &c.*)	410
Adapting armour plates to ships, &c. — (*see ship-building, &c.*)	330
Adhering figures, fibres, &c., to fabrics on cloth — (*see cemented fabrics, &c.*)	68
Adjusting crinoline — (*see petticoats, &c.*)	269
Adjustments and guide motions for machinery — (*see propelling, &c.*)	300
Administering liquids to invalids and infants — (*see medicines, &c.*)	213
Admitting air — (*see air supplying, &c.*)	9
Advertising	6
Adzes — (*see hammers, &c.*)	179
Aërating; aërated liquids; gazogene	6
Aërhydric blowers — (*see air supplying, &c.*)	13
Aërial machines; flying engines; balloons	7
Aëro-motors — (*see air engines, &c.*)	7
Aft and fore sails — (*see ships' rigging, &c.*)	336
Agents for oxidising — (*see oxidation, &c.*)	257
Agricultural implements as used in harvesting — (*see reaping, &c.*)	323
Agricultural implements as used in tilling — (*see ploughing, &c.*)	285
Air, gas, and wind engines and mills; pneumatic motive power	7
Air-exhauster — (*see air supplying, &c.*)	13
Air-motors — (*see air engines, &c.*)	8
Air-proofing and waterproofing — (*see waterproofing, &c.*)	416
Air pumps — (*see air supplying, &c.*)	13
Air supplying, blowing, and exhausting; draft and ventilation	9
Alarms and signals — (*see signals, &c.*)	343
Albums — (*see books, &c.*)	32
Alcoholic distillation — (*see distilling, &c.*)	101
Alcoholic strength of liquids,–testing — (*see testing apparatus*)	394
Algine — (*see dyes, &c.*)	111
Alimentary substances — (*see preserving food, &c.*)	290
Alizarine — (*see dyes, &c.*)	111
Alkalies; alkaline and earthy salts; mica; iodine; salts of alumina	18
Alloys of metals — (*see metals*)	216
Alteration in cheques,–preventing —— (*see cheques*)	71
Altering position of parts of machinery in motion — (*see propelling, &c.*)	300
Altering position of railway engines and trains — (*see railways, &c.*)	320
Alternate rectilinear motion,–obtaining from circular motion — (*see propelling, &c.*)	300
Aluminum — (*see metals*)	229
Amalgamating gold — (*see metals*)	216
Amaryllideæ — (*see plants, &c.*)	284
Ambulance cooking apparatus — (*see cooking, &c.*)	90
Ambulances — (*see carriages, &c.*)	57
Ammonia and its salts — (*see alkalies, &c.*)	18
Ammunition carriages — (*see carriages, &c.*)	57
Anchors; working anchors	18
Aneroid barometers — (*see thermometers, &c.*)	395
Angular paper tubes and pipes — (*see pipes, &c.*)	278
Aniline — (*see dyes, &c.*)	111
Animal black — (*see charcoal, &c.*)	70
Animal fibres — (*see fibres*)	126
Animal food,–preserving —— (*see preserving food, &c.*)	290
Animal oils — (*see oils from seeds, &c.*)	252
Animal sinews prepared as fibres — (*see fibres*)	126
Annealing metals — (*see metals*)	216
Anti-corrosive ink — (*see inks, &c.*)	192
Anti-friction mechanism for receiving the end thrust of screw propeller shafts — (*see propelling, &c.*)	297
Anti-friction rollers — (*see cylinders, &c.*)	96
Aphrodision phosphorised nervine tonic — (*see medicines, &c.*)	213
Apparatus for cleaning boots — (*see boots, &c.*)	33
Applications of glass — (*see glass, &c.*)	163
Applying breaks to railway and other wheels — (*see breaks, &c.*)	41
Applying manure to growing crops —— (*see sowing, &c.*)	351
Applying oil to axletrees — (*see oiling, &c.*)	250
Arboretical protectors — (*see horticulture, &c.*)	191
Arched ribs for bridges — (*see bridges, &c.*)	48
Arched ribs for roofs and domes — (*see building, &c.*)	50
Arches — (*see building, &c.*)	50
Architectural ornaments — (*see mouldings, &c.*)	244
Architecture — (*see building, &c.*)	50
Armament of batteries — (*see fortifications, &c.*)	145
Armorial bearings — (*see show cases, &c.*)	340
Armour plates for ships and batteries — (*see fortifications, &c.*)	145
Army huts — (*see building, &c.*)	50
Aroma of coffee and cocoa,–preserving — (*see coffee, &c.*)	84
Arranging or packing — (*see presses, &c.*)	291
Arresting the motion in looms — (*see weaving, &c.*)	429
Arresting the progress of carriages ——— (*see breaks, &c.*)	42
Arresting the progress of ships ——— (*see anchors, &c.*)	21

	Page
Articles of dress for gentlemen's wear —— (*see wearing apparel, &c.*)	418
Articles of ladies' attire — (*see petticoats, &c.*)	269
Artificial alizarine — (*see dyes, &c.*)	111
Artificial bone, ivory, horn, whalebone, shell and coral — (*see bones, &c.*)	31
Artificial cement — (*see cement, &c.*)	67
Artificial flowers, — (*see feathers, &c.*)	125
Artificial fuel — (*see fuel, &c.*)	148
Artificial fur made in looms —— (*see weaving, &c.*)	421
Artificial leather — (*see leather, &c.*)	203
Artificial manure — (*see manure, &c.*)	208
Artificial parchment — (*see leather, &c.*)	203
Artificial stone — (*see stone, &c.*)	384
Artificial teeth and palates —— (*see dentistry, &c.*)	100
Artificial wood — (*see wood, &c.*)	440
Artists' brushes — (*see brushes, &c.*)	49
Ascertaining and removing impurities in water — (*see filtering, &c.*)	130
Ascertaining degree of vitality in the human body — (*see surgery, &c.*)	389
Ascertaining distance of objects — (*see compasses, &c.*)	86
Ascertaining power,–indicators for ——— (*see governors, &c.*)	166
Ascertaining specific gravity — (*see weighing, &c.*)	431
Astragals — (*see mouldings, &c.*)	244
Atmospheric clocks — (*see clocks, &c.*)	73
Atmospheric engines — (*see air engines, &c.*)	8
Atmospheric phenomena or influences,–representing — (*see maps, &c.*)	210
Atmospheric railways — (*see railways, &c.*)	317
Attaching boot soles to uppers ——— (*see boots, &c.*)	33
Attaching gun barrels to stocks —— (*see fire-arms, &c.*)	134
Attaching horses to carriages ——— (*see harness, &c.*)	179
Attaching name plates or labels —— (*see show cases, &c.*)	340
Augers — (*see boring, &c.*)	36
Automatic signals — (*see signals, &c.*)	343
Awnings — (*see oil-cloths, &c.*)	250
Axles, shafts, bearings, journals, axle-boxes, packings for axles; lubricating axles, &c.	21
Backing piled fabrics — (*see coating, &c.*)	79
Backs of wire cards for carding engines — (*see spinning, &c.*)	356
Bagatelle boards — (*see billiard tables, &c.*)	29
Bags, sacks, baskets and fastenings; nose bags	24
Bake-houses — (*see ovens, &c.*)	256
Bakers' ovens — (*see ovens, &c.*)	256
Baking bread — (*see bread, &c.*)	41
Baking bricks — (*see bricks, &c.*)	45
Baking plaster — (*see cement, &c.*)	67
Balance weights for sash frames —— (*see windows, &c.*)	436
Balances and scale beams — (*see weighing, &c.*)	431
Balancing slide valves of steam-engines — (*see steam-engines*)	376
Baling or pressing — (*see presses, &c.*)	291
Balling thread — (*see winding, &c.*)	435
Balloons — (*see aërial machines, &c.*)	7
Balls for cricket — (*see toys, &c.*)	400
Balustrades — (*see building, &c.*)	50
Bandages and trusses for hernia —— (*see surgery, &c.*)	389
Bands, belts and braces — (*see belts, &c.*)	28
Bands for crinolines — (*see petticoats, &c.*)	269
Bands for rifles — (*see fire-arms, &c.*)	134
Bands or driving bands — (*see straps, &c.*)	386
Banners and flags	26
Barges and lighters ——— (*see ship-building, &c.*)	330
Barometers — (*see thermometers, &c.*)	395
Barrels and casks — (*see casks, &c.*)	61
Barrels for fire-arms — (*see fire-arms, &c.*)	134
Bars and blanks for nails, screws, &c. — (*see nails, &c.*)	247
Bars and rails for railways —— (*see railways, &c.*)	317
Bars for furnaces — (*see furnaces, &c.*)	150
Bars of metal — (*see metals*)	216
Bars of soap — (*see soap*)	351
Baryta,–salts of lead and ——— (*see metallic salts, &c.*)	215
Bas-reliefs,–copies of — (*see embossing, &c.*)	118
Basins — (*see baths, &c.*)	26
Baskets — (*see bags, &c.*)	24
Bass and flax — (*see fibres*)	126
Baths and basins	26
Baths and trays for photographic purposes — (*see photography, &c.*)	272
Bats for tennis and racket — (*see toys, &c.*)	400
Batteries and fortifications —— (*see fortifications, &c.*)	145
Batteries for producing electricity ——— (*see electricity, &c.*)	114
Bayonets, swords and daggers, also sheaths and handles	26
Beadings and mouldings ——— (*see mouldings, &c.*)	244
Beaming warps — (*see weaving, &c.*)	420
Beams and girders — (*see building, &c.*)	50
Beams for scales or balances — (*see weighing, &c.*)	431
Beans and oats,–hulling or shelling — (*see thrashing, &c.*)	396
Bearings and journals — (*see axles, &c.*)	21
Beaters used in scutching machines — (*see spinning, &c.*)	354
Beating and drying fabrics — (*see finishing, &c.*)	131
Beating eggs — (*see preserving food, &c.*)	290
Beating or thrashing grain — (*see thrashing, &c.*)	396
Beds and hammocks — (*see upholstery, &c.*)	403
Beds for invalids — (*see surgery, &c.*)	389
Beds or palates for artificial teeth — (*see dentistry, &c.*)	100
Bedsteads and bedstead bottoms —— (*see furniture, &c.*)	155
Beer-engines or pumps — (*see pumps, &c.*)	312
Beer and ale — (*see brewing, &c.*)	44
Beetroot sugar — (*see sugar, &c.*)	387
Bellows — (*see air supplying, &c.*)	13

	Page
Bellows for throwing sulphur on vines — (*see destroying insects, &c.*)	101
Bells; ringing bells	27
Bells used as signals — (*see signals, &c.*)	343
Belting used for driving machinery — (*see straps, &c.*)	386
Belts, bands, braces, garters	28
Belts for swimming — (*see swimming, &c.*)	390
Bending metals — (*see metals*)	223
Benzole and light oil ——— (*see oils of tar, &c.*)	254
Bezels or rings — (*see chains, &c.*)	69
Billiard tables and markers, bagatelle boards	29
Binding books — (*see books, &c.*)	32
Binding sheaves of corn, &c. — (*see reaping, &c.*)	323
Binitronapthalina,-colours derived from — (*see dyes, &c.*)	111
Bird cages	29
Biscuits — (*see bread, &c.*)	41
Bits and bridles — (*see harness, &c.*)	179
Bitumen — (*see tar, &c.*)	390
Bitumenized paper pipes — (*see pipes, &c.*)	278
Bituminous distillation	103
Bituminous oils — (*see oils of tar, &c.*)	254
Black lead pencils — (*see pens, &c.*)	268
Blacking; blacking boxes — (*see boots, &c.*)	33
Blades for knives and razors — (*see knives, &c.*)	199
Blades for swords and bayonets — (*see bayonets, &c.*)	26
Blast furnaces — (*see furnaces, &c.*)	150
Blasting in mines — (*see mining, &c.*)	232
Bleaching and decolourising	29
"Blocking" or "shoring up" in dock making — (*see docks, &c.*)	104
Blocks for building — (*see bricks, &c.*)	45
Blocks for hoisting — (*see hoists, &c.*)	187
Blocks or lasts for making boots — (*see boots, &c.*)	33
Blocks used in paving — (*see paving, &c.*)	266
Blowing and exhausting air, blowers and bellows (*see air supplying, &c.*)	9
"Blowing machines" for cleaning cotton, &c. — (*see spinning, &c.*)	354
Blueing and rinsing cloths, &c. (*see washing, &c.*)	412
Boards used for pressing cloths, &c. — (*see presses, &c.*)	291
Boas and victorines — (*see petticoats, &c.*)	269
Boats — (*see ship building, &c.*)	330
Bobbin net or twist lace — (*see weaving, &c.*)	421
Bobbins and cop-tubes	31
Bodice skirts — (*see petticoats, &c.*)	269
Bodies for coaches — (*see carriages, &c.*)	57
Bodies for hats, bonnets and caps — (*see hats, &c.*)	181
Bog earth, turf or peat — (*see peat, &c.*)	267
Bogwood and ebony — (*see wood, &c.*)	440
Boiling, boilers, steam-boilers — (*see steam-boilers, &c.*)	369
Boiling malt liquors — (*see brewing, &c.*)	44
Boiling or making soap — (*see soap*)	351
Bolts and locks — (*see locks, &c.*)	205
Bolts and rivets — (*see nails, &c.*)	247
Bomb shells — (*see shot, &c.*)	339
Bones; artificial bone, ivory, horn, whalebone, shell and coral	31
Bonnets — (*see hats, &c.*)	181
Books, albums, portfolios, book covers, book binding and ornamenting	32
Books for containing photographs — (*see photography, &c.*)	272
Boots, shoes, leggings, clogs, skates; cleaning boots; blacking; lasts	33
Boring, drilling, rifling, and punching; gimlet, augers, and brace-bits	36
Boring or drilling rock — (*see mining, &c.*)	232
Bottles and jars; stoppers, capsules, and corks; stoppering; closing and opening bottles and jars	38
Bottling liquids — (*see bottles, &c.*)	38
Bows of ships — (*see ship building, &c.*)	330
Boxes, travelling-cases, canisters, canteens, work-boxes, dressing-cases	39
Brace-bits — (*see boring, &c.*)	36
Brace-fastenings — (*see buttons, &c.*)	54
Brace-webs,-weaving — (*see weaving, &c.*)	427
Bracelets — (*see jewellery, &c.*)	193
Braces, belts, and garters — (*see belts, &c.*)	28
Braid, braiding machines ——— (*see weaving, &c.*)	427
Brass — (*see metals*)	216
Brass nails — (*see nails, &c.*)	247
Bread, biscuits, and vermicelli; kneading machines, bakers' ovens	41
Breaking hemp, flax, &c. for spinning — (*see spinning, &c.*)	354
Breaking or opening land — (*see ploughing, &c.*)	285
Breaking or training horses — (*see harness, &c.*)	179
Breaking ores and stones — (*see grinding minerals, &c.*)	171
Breaks, skids, and buffers for carriages and railways	42
Breaks for machinery — (*see governors, &c.*)	166
Breakwaters — (*see docks, &c.*)	104
Breech-loading fire-arms —— (*see fire-arms, &c.*)	134
Brewers' coppers — (*see ovens, &c.*)	256
Brewing, fermenting, manufacturing, and treating beer, wine, &c.; yeast; treating malt and hops	44
Brick kilns — (*see ovens, &c.*)	256
Bricks, tiles, and building-blocks	45
Bridges and viaducts	48
Bridles — (*see harness, &c.*)	179
Brine — (*see salt*)	328
Bristles,-imitation of — (*see fibres*)	126
Brooches — (*see jewellery, &c.*)	193
Broom or genista scoparia—(*see plants, &c.*)	284
Brooms — (*see brushes, &c.*)	49
Brush drills for sowing seed—(*see sowing, &c.*)	351
Brushes and brooms	49
Brushing or dressing cloths, &c. ——— (*see finishing, &c.*)	131
Brussels lace — (*see weaving, &c.*)	425
Buckets and tubs — (*see cisterns, &c.*)	72
Buckets for pumps — (*see pumps, &c.*)	312
Buckles — (*see buttons, &c.*)	54
Buffers and breaks — (*see breaks, &c.*)	42

	Page
Building, plastering, flooring, and roofing; beams and girders; walls and ceilings; tents	50
Building carriages — (*see carriages, &c.*)	57
Building lighthouses — (*see buoys, &c.*)	53
Building or constructing steam-boilers — (*see steam-boilers, &c.*)	369
Building ships and boats — (*see ship building, &c.*)	330
Building-blocks — (*see bricks, &c.*)	45
Buildings,–ventilating—(*see ventilation, &c.*)	410
Buildings,–warming — (*see heating, &c.*)	182
Bullets, shot, &c. — (*see shot, &c.*)	339
Bungs, corks, spiles, &c. — (*see cork, &c.*)	92
Buoys and lighthouses	53
Burners for gas — (*see gas burners, &c.*)	161
Burning lime — (*see cement, &c.*)	67
Burring and cleaning fibres — (*see spinning, &c.*)	354
Bushes for sheaves — (*see axles, &c.*)	21
Busks or stay fasteners — (*see petticoats, &c.*)	269
Bustles or skirt supporters —— (*see petticoats, &c.*)	269
Busts and statues — (*see pillars, &c.*)	275
Butter — (*see churns, &c.*)	72
"Butterfly" valves — (*see valves, &c.*)	405
Buttons, buckles, hooks and eyes, and other dress fastenings	54
Butts and targets — (*see fire-arms, &c.*)	134
Cables for submarine telegraphs — (*see telegraphs, &c.*)	391
Cables or ropes — (*see ropes, &c.*)	327
Cabs — (*see carriages, &c.*)	57
Caddies or tea-caddies — (*see coffee, &c.*)	84
Cages for birds — (*see bird cages*)	29
Cages used in mining — (*see mining, &c.*)	232
Calcareous and saline deposits,–removing — (*see oxidation, &c.*)	257
Calcining limestone — (*see cement, &c.*)	67
Calcining metallic ores — (*see metals*)	216
Calcining wood — (*see charcoal, &c.*)	70
Calendars — (*see clocks, &c.*)	73
Calendering textile fabrics —— (*see finishing, &c.*)	131
Calico printing — (*see printing, &c.*)	293
Calking ships — (*see ship building, &c.*)	330
Caloric engines — (*see air engines, &c.*)	7
Cameos — (*see embossing, &c.*)	118
Cameras — (*see optical instruments, &c.*)	255
Cams and pulleys —— (*see wheels for machinery, &c.*)	434
Canals — (*see docks, &c.*)	104
Candles; candle and lamp wicks	56
Candlesticks — (*see lamps, &c.*)	201
Cane juice and saccarine solutions —— (*see sugar, &c.*)	387
Canes and walking sticks —— (*see umbrellas, &c.*)	402
Canisters — (*see boxes, &c.*)	39
Cannon and mortars — (*see fire-arms, &c.*)	134
Cans for holding oil — (*see oiling, &c.*)	250
Canteens — (*see boxes, &c.*)	39
Caoutchouc,–treating —— (*see gutta-percha preparing, &c.*)	174
Caoutchouc as applied — (*see gutta-percha as applied, &c.*)	175
Capes and coats — (*see wearing apparel, &c.*)	418
Caps — (*see hats, &c.*)	181
Capstans — (*see hoists, &c.*)	187
Capsules for bottles — (*see bottles, &c.*)	38
Carbolic acid — (*see acids, &c.*)	4
Carbon and coke — (*see charcoal, &c.*)	70
Carbonite of lead — (*see metallic salts, &c.*)	215
Carbonizing sawdust — (*see charcoal, &c.*)	70
Carburetting gas — (*see gas, &c.*)	158
Carcasses of pigs,–singeing—(*see singeing pigs*)	347
Cardboard and pasteboard — (*see paper, &c.*)	261
Carding, combing, and heckling fibres — (*see spinning, &c.*)	356
Cards, racks for cards — (*see stamps, &c.*)	367
Cards for compasses — (*see compasses, &c.*)	86
Cards or plates for jacquard machines —— (*see weaving, &c.*)	421
Cards or playing-cards —— (*see playing cards*)	285
Cargo,–loading and unloading —— (*see ship building, &c.*)	330
Carpet weaving; carpet looms — (*see weaving, &c.*)	421
Carriage axles — (*see axles, &c.*)	21
Carriage propulsion — (*see propelling, &c.*)	299
Carriage wheels —— (*see wheels for carriages, &c.*)	431
Carriages,–ventilating— (*see ventilation, &c.*)	410
Carriages, omnibuses, waggons, ambulances; carriage springs; carriage of letters, &c.; velocipedes	57
Carriers or stackers for stacking agricultural produce — (*see thrashing, &c.*)	396
Carrying off scum and sediment from feed water — (*see steam-boilers, &c.*)	374
Carrying off town sewage — (*see drains, &c.*)	105
Cars — (*see carriages, &c.*)	57
Cartridges and cases; gun wads	60
Casements or French windows —— (*see windows, &c.*)	436
Cases and boxes for cigars— (*see tobacco, &c.*)	399
Cases for bonnet fronts — (*see hats, &c.*)	181
Cases for containing types—(*see printing, &c.*)	293
Cases for exhibiting drapery, &c. — (*see show cases, &c.*)	340
Cases for fuses — (*see matches, &c.*)	210
Cases for mattresses — (*see upholstery, &c.*)	403
Cases for musical instruments — (*see musical instruments, &c.*)	246
Cases for oil — (*see oils from seeds, &c.*)	254
Cases for pins and needles — (*see pins, &c.*)	277
Cases for rouches — (*see hats, &c.*)	181
Cases for spectacles —— (*see optical instruments, &c.*)	255
Cases for stitching machines — (*see sewing, &c.*)	328
Cases for supplying caps to the nipples of rifles — (*see fire-arms, &c.*)	134
Cases for surgical instruments — (*see surgery, &c.*)	389
Casing for ship propellers — (*see propelling, &c.*)	297
Casing for steam-boilers — (*see steam-boilers, &c.*)	369

	Page
Casing or lining metallic surfaces — (*see coating, &c.*)	75
Casks and barrels; bungs; tilting casks	61
Cast steel — (*see metals*)	216
Casters for furniture — (*see furniture, &c.*)	155
Casting and moulding metals; manufacture of castings	62
Casting and moulding plastic materials; manufacture of moulded articles; plastic compositions; moulding fuel	64
Catches for weaving — (*see weaving, &c.*)	421
Catching fish — (*see fishing, &c.*)	142
Catching flies — (*see destroying insects, &c.*)	101
Caustic alkalies — (*see alkalies, &c.*)	18
Cedar wood — (*see wood, &c.*)	440
Ceilings and walls — (*see building, &c.*)	50
Cement and plaster	67
Cemented and flocked fabrics; adhering powder, fibres, &c.; cemented yarns; cemented wicker-work	68
Cementing the points of envelopes —— (*see envelopes*)	121
Centre seconds watches — (*see clocks, &c.*)	73
Centrifugal force for obtaining motive-power — (*see motive-power, &c.*)	243
Centrifugal governors — (*see governors, &c.*)	166
Ceramic wares — (*see earthenware, &c.*)	112
Cessation of vitality in the human body,–ascertaining — (*see surgery, &c.*)	389
Chaff-cutting machines ——— (*see food for cattle, &c.*)	144
Chain harrows — (*see ploughing, &c.*)	285
Chains; chain cables; hooks, hoops, rings	69
Chains for watches — (*see clocks, &c.*)	73
Chairs and tables — (*see furniture, &c.*)	155
Chairs for railways — (*see railways, &c.*)	317
Chambers or vessels containing steam — (*see steam-boilers, &c.*)	369
Chandeliers — (*see lamps, &c.*)	201
Chantilly lace — (*see weaving, &c.*)	425
Chapapote, a bituminous substance — (*see tar, &c.*)	390
Charcoal, coke, carbon, lamp and animal black	70
Charcoal kilns — (*see ovens, &c.*)	256
Charging tunning or fermenting casks —— (*see brewing, &c.*)	44
Charring timber — (*see charcoal, &c.*)	70
Chases for printers' type — (*see printing, &c.*)	293
Checking the progress of carriages — (*see breaks, &c.*)	42
Cheese; colouring cheese-pastes —— (*see churns, &c.*)	72
Cheese-pastes — (*see churns*)	72
Chemises — (*see petticoats, &c.*)	269
Chenille; chenille fabrics	71
Cheques	71
Chest expanders — (*see medicines, &c.*)	213
Chest protecting brace — (*see belts, &c.*)	28
Children's nursery chairs —— (*see furniture, &c.*)	155
Children's rocking toys — (*see toys, &c.*)	400
Chills used in moulding metals — (*see casting metals, &c.*)	62
Chimney cowls — (*see flues, &c.*)	142
Chimney head — (*see flues, &c.*)	142
Chimney pieces — (*see fire-places, &c.*)	141
Chimney shafts — (*see flues, &c.*)	142
Chimney tops and wind guards — (*see flues, &c.*)	142
Chimneys — (*see flues, &c.*)	142
Chimneys for lamps — (*see lamps, &c.*)	201
China grass — (*see fibres, &c.*)	126
Chisels — (*see hammers, &c.*)	179
Chlorides	72
Cholera,–prevention of — (*see medicines, &c.*)	213
Chromo-lithography — (*see printing, &c.*)	293
Chronometers — (*see clocks, &c.*)	73
Churches,–warming — (*see heating, &c.*)	182
Churka or roller gins for cleaning cotton — (*see spinning, &c.*)	354
Churns; making butter; colouring cheese-pastes	72
Cigars, cigarettes, cigar boxes, tubes, &c. — (*see tobacco, &c.*)	399
Cinder ovens — (*see ovens, &c.*)	256
Cinder sifters — (*see sifting, &c.*)	342
Circular blooms used in manufacture of wheel tire — (*see wheels for carriages, &c.*)	431
Circular knitting frames or machines — (*see weaving, &c.*)	421
Circular looms — (*see weaving, &c.*)	421
Circular motion,–converting into rectilinear motion — (*see propelling, &c.*)	300
Circular stereotype plates — (*see printing, &c.*)	293
Cisterns, water-tanks, buckets, tubs	72
Civil and military decorations — (*see wearing apparel, &c.*)	418
Clamps used for dipping matches —— (*see matches, &c.*)	210
Clarifying liquids — (*see filtering, &c.*)	130
Clarifying mineral oils — (*see oils of tar, &c.*)	254
Clarifying saccharine solutions — (*see sugar, &c.*)	387
Clarifying vegetable oils —— (*see oils from seeds, &c.*)	252
Clarionets — (*see musical instruments, &c.*)	246
Clasps — (*see buttons, &c.*)	54
Clasps for belts — (*see belts, &c.*)	28
Clasps for purses, &c. — (*see purses, &c.*)	316
Clasps for tobacco pouches — (*see tobacco, &c.*)	399
Cleaners for bottles — (*see bottles, &c.*)	38
Cleaning and picking oakum — (*see ropes, &c.*)	327
Cleaning boots — (*see boots, &c.*)	33
Cleaning carriages — (*see carriages, &c.*)	57
Cleaning chimneys or flues — (*see flues, &c.*)	142
Cleaning coffee — (*see coffee, &c.*)	84
Cleaning fibres —(*see fibres, &c.*)	126
Cleaning grain and other agricultural produce — (*see thrashing, &c.*)	396
Cleaning knives — (*see knives, &c.*)	199
Cleaning metals — (*see metals*)	229
Cleaning ships — (*see ship building, &c.*)	330
Cleaning shop fronts ——— (*see show cases, &c.*)	340
Cleaning wheat, grain, and rice — (*see thrashing, &c.*)	396
Cleaning windows — (*see windows, &c.*)	436
Cleansing and finishing cloths, &c. —— (*see finishing, &c.*)	131

	Page
Cleansing and washing cloths, &c. —— (*see washing, &c.*)	412
Cleansing casks — (*see casks, &c.*)	61
Cleansing conduits — (*see watering, &c.*)	415
Cleansing feathers — (*see feathers, &c.*)	125
Cleansing rivers — (*see excavating, &c.*)	122
Cleansing sewers — (*see drains, &c.*)	105
Cleansing steam-boilers —— (*see steam-boilers, &c.*)	374
Clearing and smoothing thread or yarn — (*see finishing, &c.*)	131
Clew box for thread — (*see threads, &c.*)	398
Clips for holding and adjusting crinoline — (*see petticoats, &c.*)	269
Clips for papers, &c. — (*see files or clips, &c.*)	130
Clocks, watches, and other timekeepers; calendars; watch keys, chains and guards	73
Clogs — (*see boots, &c.*)	33
Closet or larder "safe" —— (*see preserving food, &c.*)	290
Closets and urinals — (*see water-closets, &c.*)	414
Closing and securing mail bags — (*see bags, &c.*)	24
Closing bottles and jars — (*see bottles, &c.*)	38
Closing or sealing packages —— (*see presses, &c.*)	291
Clothing for gentlemen's wear — (*see wearing apparel, &c.*)	418
Clothing for ladies' wear — (*see petticoats, &c.*)	269
Coaches, coach bodies — (*see carriages, &c.*)	57
Coal boxes and cinder sifters — (*see fire-places, &c.*)	141
Coal gas — (*see gas, &c.*)	158
Coal working or mining — (*see mining, &c.*)	232
"Coaling," "swill," and similar baskets — (*see bags, &c.*)	24
Coating, covering, plating, sheathing	75
Coating looking glasses —— (*see looking glasses, &c.*)	206
Coating pills with albumen — (*see medicines, &c.*)	213
Coating with enamel — (*see enamelling, &c.*)	119
Coats and waistcoats — (*see wearing apparel, &c.*)	418
Cochlearia armoracia or horse radish — (*see plants, &c.*)	284
Cocks and taps — (*see valves, &c.*)	405
Cocoa — (*see coffee, &c.*)	84
Cod liver oil — (*see medicines, &c.*)	213
Coffee, cocoa, and tea; coffee-pots; tea fountains	84
Coffers, coffer dams — (*see docks, &c.*)	104
Coffins, mourning carriages	85
Coiling and paying out telegraphic cables — (*see telegraphs, &c.*)	391
Coins and medals; coining	85
Coke — (*see charcoal, &c.*)	70
Collars and chains for dogs — (*see chains, &c.*)	69
Collars and cuffs for ladies' wear — (*see petticoats, &c.*)	269
Collars and wristbands for shirts —— (*see shirts, &c.*)	337
Collars for horses — (*see harness, &c.*)	179
Collecting agricultural produce — (*see reaping, &c.*)	323
Collecting and removing dirt from spinning-machines — (*see spinning, &c.*)	359
Collecting and removing waste — (*see rags, &c.*)	316
Collecting gases and smoke from furnaces — (*see smoke prevention, &c.*)	348
Collecting letters in towns, &c. — (*see pillars, &c.*)	275
Colliers or coal vessels — (*see ship building, &c.*)	330
Colliery cages — (*see mining, &c.*)	232
Colonists' huts — (*see building, &c.*)	50
Colouring and glazing laces — (*see finishing, &c.*)	131
Colouring and painting — (*see painting, &c.*)	258
Colouring cheese-pastes — (*see churns, &c.*)	72
Colouring smoking-pipes —— (*see tobacco, &c.*)	399
Colouring straps and belts —— (*see finishing, &c.*)	131
Colours,–fixing on cloths — (*see dyeing, &c.*)	109
Colours and dyes, colour spert — (*see dyes, &c.*)	111
Colours and paints — (*see painting, &c.*)	258
Columns and pillars — (*see pillars, &c.*)	275
"Comb beater" or reaping machine — (*see reaping, &c.*)	323
Composing type — (*see printing, &c.*)	293
Composite carriages for funerals — (*see coffins, &c.*)	85
Composite yarns — (*see threads, &c.*)	398
Composition-pipes — (*see pipes, &c.*)	278
Compositions for coating — (*see coating, &c.*)	75
Compositions for hardening stone, &c. — (*see preserving wood, &c.*)	288
Compositions for polishing —— (*see grinding, sharpening, &c.*)	172
Compositions for waterproofing — (*see waterproofing, &c.*)	416
Compositions suitable for painting — (*see painting, &c.*)	258
Compositions used in making soap — (*see soap*)	351
Compound steam-engines —— (*see steam-engines, &c.*)	376
Compressing air — (*see air supplying, &c.*)	13
Compressing and packing — (*see presses, &c.*)	291
Compressing clay — (*see bricks, &c.*)	45
Concentrating solutions in distilling — (*see distilling, &c.*)	101
Combination of metals — (*see metals*)	216
Combined chair and splice for railways — (*see railways, &c.*)	317
Combing hair — (*see dressing-cases, &c.*)	106
Combing wool and other fibres — (*see spinning, &c.*)	356
Combining fibres — (*see fibres*)	126
Combs	86
Commercial salts of lead — (*see metallic salts, &c.*)	215
Commissariat ambulances —— (*see carriages, &c.*)	57
Commodes and urinals — (*see water-closets, &c.*)	414
Common road propulsion — (*see propelling, &c.*)	299

	Page
Communicating by electric telegraph — (*see telegraphs, &c.*)	391
Communicating motion to machinery — (*see propelling, &c.*)	300
Communicating or giving signals — (*see signals, &c.*)	343
Compasses; measuring angles; surveying; mathematical and geometrical instruments; levels	86
Compensating gas meters — (*see meters, &c.*)	231
Concertinas — (*see musical instruments, &c.*)	246
Condensing, cooling, making ice	87
Condensing steam-engines —— (*see steam-engines*)	376
Conducting or forcing the flow of water, &c. — (*see valves, &c.*)	405
Conductors for electric telegraphs — (*see telegraphs, &c.*)	391
Conduits and fountains — (*see watering, &c.*)	415
Confectionery — (*see bread, &c.*)	41
Connecting and adjusting crinoline —— (*see petticoats, &c.*)	269
Connecting gas pipes, &c. — (*see joining, &c.*)	195
Connecting-links of chains — (*see chains, &c.*)	69
Connecting-rods for power looms —— (*see weaving, &c.*)	421
Conservatories,–constructing — (*see horticulture, &c.*)	191
Conservatories,–warming — (*see heating, &c.*)	182
Consuming smoke —— (*see smoke prevention, &c.*)	348
Converting fibrous matters into paper pulp — (*see paper, &c.*)	261
Converting iron into steel — (*see metals*)	216
Converting movements — (*see propelling, &c.*)	300
Conveying water to buildings —— (*see watering, &c.*)	415
Cooking, and apparatus used in cooking	90
Cooling; making ice — (*see condensing, &c.*)	87
Cop-tubes — (*see bobbins, &c.*)	31
Copies of mouldings — (*see mouldings, &c.*)	244
Copper — (*see metals*)	216
Coppers or boilers — (*see steam-boilers, &c.*)	369
Copying, tracing, ruling, drawing, and writing	91
Coral,–artificial — (*see bones, &c.*)	31
Cord and twine — (*see ropes, &c.*)	327
Cord for suspending pictures ——— (*see pictures, &c.*)	273
Cords and blind cords,–platting —— (*see weaving, &c.*)	427
Core boxes and moulds for casting metals — (*see casting metals, &c.*)	62
Cork; corks and bungs	92
Corn and grain,–thrashing, &c. — (*see thrashing, &c.*)	396
Cornices for bedsteads — (*see furniture, &c.*)	155
Cornish steam-boilers — (*see steam-boilers, &c.*)	369
Corrosion and oxidation,–preventing — (*see oxidation, &c.*)	257
Corrugating or embossing — (*see embossing, &c.*)	118
Corsets and stays — (*see petticoats, &c.*)	269
Corves and waggons — (*see carriages, &c.*)	57
Cotton,–bleaching — (*see bleaching, &c.*)	29
Cotton gins, cotton openers — (*see spinning, &c.*)	354
Cotton spinning, and preparing for spinning — (*see spinning, &c.*)	354
Cots — (*see furniture, &c.*)	155
Couches and bedsteads — (*see furniture, &c.*)	155
Counter or pillar beer-engines — (*see pumps, &c.*)	312
Counting apparatus or turnstiles for cabs, &c. — (*see measuring progress, &c.*)	212
Counting money — (*see measuring length, &c.*)	211
Counting work performed in machines, looms, &c. — (*see measuriag length, &c.*)	211
Coupling carriages — (*see carriages, &c.*)	57
Coupling for shafts — (*see axles, &c.*)	21
Coupling joints of pipes — (*see joining, &c.*)	195
Couplings or dress fastenings ——— (*see buttons, &c.*)	54
Covering metallic surfaces, wire, &c. — (*see coating, &c.*)	75
Covering rollers — (*see coating, &c.*)	84
Covering mouldings — (*see mouldings, &c.*)	244
Covering stone, wood, &c. — (*see coating, &c.*)	79
Covering vases — (*see vases*)	409
Coverings of books and portfolios ——— (*see books, &c.*)	32
Coverings for the feet — (*see boots, &c.*)	33
Coverings for the head — (*see hats, &c.*)	181
Coverings for the throat and chest —— (*see shirts, &c.*)	337
Coverings or pavements — (*see paving, &c.*)	266
Covers for jars — (*see bottles, &c.*)	38
Covers for newspapers — (*see envelopes*)	121
Covers for umbrellas and parasols —— (*see umbrellas, &c.*)	402
"Crabbing" or finishing piece goods — (*see finishing, &c.*)	131
Cracking or grooving millstones — (*see grinding corn, &c.*)	170
Cradles — (*see furniture, &c.*)	155
Cradles used in mining — (*see mining, &c.*)	232
Craft propelled by oars —— (*see ship building, &c.*)	330
Cranes — (*see hoists, &c.*)	187
Crank shafts — (*see axles, &c.*)	21
Cranks and gearing for working machinery — (*see propelling, &c.*)	300
Cravats and neckties — (*see shirts, &c.*)	337
Crayons — (*see pens, &c.*)	268
Cream,–preparing for making butter —— (*see churns, &c.*)	72
Creosote — (*see tar, &c.*)	290
Cricket-balls — (*see toys, &c.*)	400
Crotchet needles — (*see needles, &c.*)	277
Crops whilst growing,–applying manure to — (*see sowing, &c.*)	351
"Cross raising gig" used in dressing woollen cloth — (*see finishing, &c.*)	131
Cross sleepers for railways —— (*see railways, &c.*)	317
Crossings and turntables for railways — (*see railways, &c.*)	320
Crucibles and retorts — (*see retorts, &c.*)	326
Crushing corn, grain, seeds, &c. — (*see grinding corn, &c.*)	170
Crushing mineral substances — (*see grinding minerals, &c.*)	171
Cube sugar — (*see sugar, &c.*)	387

	Page
Cuffs and collars for ladies' wear— (*see petticoats, &c.*)	269
Cuffs, collars, and shirt fronts —— (*see shirts, &c.*)	337
Cultivating or tilling land —— (*see ploughing, &c.*)	285
Cultivating plants and flowers — (*see horticulture, &c.*)	191
Cupolas — (*see furnaces, &c.*)	150
Cups — (*see trays, &c.*)	401
Cure of diseases, curative apparatus — (*see medicines, &c.*)	213
Curing smoky chimneys — (*see flues, &c.*)	142
Currying horses — (*see harness, &c.*)	179
Curtains, cushions, &c. — (*see upholstery, &c.*)	403
Curved paper tubes and pipes —— (*see pipes, &c.*)	278
Curved stereotype plates — (*see printing, &c.*)	293
Curvilinear forms in wood —— (*see wood, &c.*)	440
Cushions, mattresses, &c. — (*see upholstery, &c.*)	403
Cutting, sawing, and planing	93
Cutting and harvesting grain and grass — (*see reaping, &c.*)	323
Cutting and turning up land — (*see ploughing, &c.*)	285
Cutting chaff and hay —— (*see food for cattle, &c.*)	144
Cutting files — (*see files and rasps*)	129
Cutting hair — (*see dressing-cases, &c.*)	106
Cutting india-rubber fillets — (*see gutta-percha preparing, &c.*)	174
Cutting leather — (*see leather, &c.*)	203
Cutting metals — (*see metals*)	227
Cutting or carving wood — (*see wood, &c.*)	440
Cutting or pulping roots for cattle — (*see food for cattle, &c.*)	144
Cutting or shaping soap — (*see soap*)	351
Cutting screws — (*see nails, &c.*)	247
Cutting selvedge of fabrics while being stitched — (*see sewing, &c.*)	328
Cutting the edges of books, &c. —— (*see books, &c.*)	32
Cylinder-printing machines —— (*see printing, &c.*)	293
Cylinders,–oiling — (*see oiling, &c.*)	250
Cylinders, rollers, drums; covering rollers	96
Cylindro-conoidal projectiles — (*see shot, &c.*)	339
Dabbing brushes — (*see brushes, &c.*)	49
Daggers — (*see bayonets, &c.*)	26
Dairy products — (*see churns, &c.*)	72
Dampers and stamps — (*see stamps, &c.*)	367
Dampers for regulating draft — (*see air supplying, &c.*)	9
Danger signals — (*see signals, &c.*)	343
"Davy" lamp for miners — (*see lamps, &c.*)	201
Decanters — (*see bottles, &c.*)	38
Decks of ships — (*see ship building, &c.*)	330
Decoctions — (*see extracts, &c.*)	122
Decolourising — (*see bleaching, &c.*)	29
Decomposition in wood, metal, &c.,–preventing — (*see preserving wood, &c.*)	288
Decorating iron articles — (*see metals*)	229
Decorticating corn and seeds — (*see thrashing, &c.*)	396
Deflectors for lamps — (*see lamps, &c.*)	201
Degree of vitality in the human body,–ascertaining — (*see surgery, &c.*)	389
Delivering rollers for spinning machines — (*see spinning, &c.*)	359
Delivering sheets in printing machines — (*see printing, &c.*)	293
Dentistry; artificial teeth and palates	100
Deodorizing — (*see disinfecting, &c.*)	101
Deodorizing human excrement — (*see manure, &c.*)	208
Depositing metal by electricity — (*see electro-plating, &c.*)	114
Deposits and incrustations,–preventing and removing — (*see oxidation, &c.*)	257
Depth of water and velocity of streams,–measuring — (*see measuring progress, &c.*)	212
Descent of sooty exhalations,–preventing — (*see smoke prevention, &c.*)	348
Desiccating — (*see drying, &c.*)	107
Desks — (*see boxes, &c.*)	39
Destroying and consuming smoke —— (*see smoke prevention, &c.*)	348
Destroying insects, catching flies	101
Desulphurising coal for making coke — (*see charcoal, &c.*)	70
Detergents for cleansing silks, &c. — (*see washing, &c.*)	412
Deterioration of grain in ships' holds,–preventing — (*see thrashing, &c.*)	396
Diagonal condensing steam-engines —— (*see steam-engines*)	376
Dials for clocks and watches — (*see clocks, &c.*)	73
Dies and screw stocks — (*see nails, &c.*)	247
Digging and spading machines — (*see ploughing, &c.*)	285
Dinner plates — (*see trays, &c.*)	401
Dinner table mats — (*see oil-cloths, &c.*)	250
Dipping splints for matches, dipping clamps — (*see matches, &c.*)	210
Dipping tapers — (*see candles, &c.*)	56
Discharging cannon — (*see fire-arms, &c.*)	134
Discharging contents of tea-pots —— (*see coffee, &c.*)	84
Disengaging apparatuses for boats — (*see ships' boats, &c.*)	336
Disinfecting; deodorizing	101
Dispatch boxes — (*see boxes, &c.*)	39
Displaying pictures — (*see pictures, &c.*)	273
Distending articles of dress —— (*see petticoats, &c.*)	269
Distilling and rectifying	101
Distilling water — (*see filtering, &c.*)	130
Distributing contents of tea-pots —— (*see coffee, &c.*)	84
Distributing manure on land —— (*see sowing, &c.*)	351
Distributing printers' type —— (*see printing, &c.*)	293
Distributing water over land — (*see watering, &c.*)	415
Dividing soap into bars — (*see soap*)	351

	Page
Docks, harbours, breakwaters, piers, quays, landing-stages; canals; submarine works	104
Doctors or scrapers used in calico printing — (*see printing, &c.*)	293
Dog chains and collars — (*see chains, &c.*)	69
Dolls and toys — (*see toys, &c.*)	400
Domes and arches — (*see building, &c.*)	50
Donkey engines for supplying water to boilers — (*see steam-boilers, &c.*)	375
Door-mats — (*see upholstery, &c.*)	403
Doors and gates; door furniture	104
Double-acting pump for fire-engines — (*see fire-engines, &c.*)	139
Double-sighted rifle guns — (*see fire-arms, &c.*)	134
Double system mixed press — (*see presses, &c.*)	291
Doubling frames — (*see spinning, &c.*)	359
"Douche" for the ear, &c. — (*see medicines, &c.*)	213
Dough and paste — (*see bread, &c.*)	41
Dovetail joints — (*see joining, &c.*)	195
Dowels or holdfasts — (*see nails, &c.*)	247
Drafts and letters,–copying — (*see copying, &c.*)	91
Drafts at the foot of doors,–preventing — (*see doors, &c.*)	104
Drains, sewers, gutters; drain pipes and tiles; draining; stench traps	105
Draw and buffer springs for carriages — (*see springs*)	365
Drawing, drawing boards and instruments — (*see copying, &c.*)	91
Drawing fluids from the human body — (*see surgery, &c.*)	389
Drawing off liquids from casks, &c. — (*see valves, &c.*)	405
Drawing off smoke and gases — (*see flues, &c.*)	142
Drawing or roving fibrous substances — (*see spinning, &c.*)	359
Drawing or unscrewing bolts — (*see vices, &c.*)	412
Drawing teeth — (*see dentistry, &c.*)	100
Dredging rivers — (*see excavating, &c.*)	122
Dress fastenings — (*see buttons, &c.*)	54
Dress suspenders — (*see petticoats, &c.*)	269
Dresses for the stage — (*see wearing apparel, &c.*)	418
Dressing and polishing rice —— (*see thrashing, &c.*)	396
Dressing cloths, &c. — (*see finishing, &c.*)	131
Dressing fibres preparatory to spinning — (*see spinning, &c.*)	354
Dressing flour — (*see grinding corn, &c.*)	170
Dressing fruit — (*see preserving food, &c.*)	290
Dressing stone, millstones, &c. — (*see stone, &c.*)	384
Dressing warps — (*see weaving, &c.*)	420
Dressing woven fabrics, yarns, &c. — (*see finishing, &c.*)	131
Dressing-cases; hair-dressing; shaving-brushes; perfumery	106
Drill sheds — (*see building, &c.*)	50
Drilling or boring — (*see boring, &c.*)	36
Drilling or boring rock — (*see mining, &c.*)	232
Drills used for sowing seed — (*see sowing, &c.*)	351
Driving galleries through rock — (*see excavating, &c.*)	122
Driving machinery, ploughs, and pumps — (*see propelling, &c.*)	300
Driving piles — (*see pile-driving*)	275
Driving-bands — (*see straps, &c.*)	386
Drowning,–prevention of — (*see swimming, &c.*)	390
Drums and cylinders — (*see cylinders, &c.*)	96
Drums and cymbals — (*see musical instruments, &c.*)	246
Dry gas meters — (*see meters, &c.*)	231
Drying and stretching; expressing moisture	106
"Dumb jockey" for breaking or training horses — (*see harness, &c.*)	179
Duplicate tickets used by pawnbrokers — (*see stamps, &c.*)	367
Dye houses,–arranging — (*see dyeing, &c.*)	109
Dye woods — (*see dyes, &c.*)	111
Dyeing textile fabrics, yarns, and materials; fixing colours; mordants	109
Dyes and printing-colours	111
Dynamical electricity — (*see electricity, &c.*)	114
Dynamometers — (*see testing apparatus*)	394
Ears for buckets — (*see cisterns, &c.*)	72
Earth or ground screws — (*see pile-driving, &c.*)	275
Earthen cross sleepers for railways — (*see railways, &c.*)	317
Earthenware and porcelain; pottery kilns; potters' slip; glazes; ceramic ware	112
Earthenware pipes — (*see pipes, &c.*)	278
Earths used in colour making — (*see painting, &c.*)	258
Earthy salts — (*see alkalies, &c.*)	18
Ebony and bogwood — (*see wood, &c.*)	440
Economising fuel —— (*see smoke prevention, &c.*)	348
Edge cutting or grass edge cutting — (*see reaping, &c.*)	323
Eduction valves — (*see valves, &c.*)	405
Eggs,–beating — (*see preserving food, &c.*)	290
Eiklonia buccinalis — (*see plants, &c.*)	284
Elaidic acid — (*see acids, &c.*)	4
Elastic belts and bands — (*see belts, &c.*)	28
Elastic fabrics — (*see fabrics, &c.*)	123
Elastic horse collars — (*see harness, &c.*)	179
Elastic surgical stockings, knee caps, &c. — (*see surgery, &c.*)	389
Electric targets — (*see fire-arms, &c.*)	134
Electric telegraphs — (*see telegraphs, &c.*)	391
Electricity, galvanism, and magnetism, and their application	114
Electro-galvanic friction brush —— (*see brushes, &c.*)	49
Electro-motive power — (*see motive power, &c.*)	243
Electro-plating and galvanizing; electrotyping; depositing metal by electricity	114
Electro-thermometrical alarms — (*see signals &c.*)	343
Elevating boiling soap and dividing into bars — (*see soap*)	351
Elevating rifle sights — (*see fire-arms, &c.*)	134
Elixir used for dental purposes — (*see dentistry, &c.*)	100
Elongated projectiles — (*see shot, &c.*)	339
Embossing; producing raised patterns	118
Embroidering — (*see sewing, &c.*)	328

	Page
Embroidery applied to book-binding — (*see books, &c.*)	32
Emery — (*see grinding, sharpening, &c.*)	172
Enabling mankind to fly through the air — (*see aërial machines, &c.*)	7
Enabling railway guards and engine drivers to communicate — (*see signals, &c.*)	343
Enamelling, enamels	119
End thrust of screw propeller shafts,–mechanism for receiving — (*see propelling, &c.*)	297
Endless or portable railways — (*see railways, &c.*)	317
Endorsing machines — (*see stamps, &c.*)	367
Engraving and etching; producing sunk devices	120
Entablatures — (*see mouldings, &c.*)	244
Envelopes	121
Envelopes for containing photographs — (*see photography, &c.*)	272
Equilibrium lubricators — (*see oiling, &c.*)	250
Equilibrium steering apparatus — (*see steering, &c.*)	382
Equilibrium valves — (*see valves, &c.*)	405
Equipment of batteries — (*see fortifications, &c.*)	145
Equipment of ships — (*see ship-building, &c.*)	330
Escape of gas,–preventing — (*see gas burners, &c.*)	161
Etching — (*see engraving, &c.*)	120
Eupion — (*see oils of tar, &c.*)	254
Evaporating — (*see heating, &c.*)	182
Evaporating brine — (*see salt*)	328
Ever-pointed pencils — (*see pens, &c.*)	268
Excavating and tunnelling; dredging and cleansing rivers	122
Excrement,–deodorizing — (*see disinfecting, &c.*)	101
Excursion bags — (*see bags, &c.*)	24
Exercises and games — (*see toys, &c.*)	400
Exhausting air — (*see air supplying, &c.*)	9
Exhibiting drapery, &c. for sale — (*see show-cases, &c.*)	340
Exhibiting views — (*see pictures, &c.*)	273
Expanding combs used with warping mills — (*see weaving, &c.*)	420
Expanding tables — (*see furniture, &c.*)	155
Explosion of steam-boilers,–preventing — (*see steam-boilers, &c.*)	369
Explosive compounds — (*see gunpowder, &c.*)	173
Explosive shells for warfare — (*see shot, &c.*)	339
Expressing moisture — (*see drying, &c.*)	107
Expressing oil — (*see oils from seeds, &c.*)	252
Extinguishing fires in buildings — (*see fire-engines, &c.*)	139
Extracting and reducing metals — (*see metals*)	216
Extracting oils from seeds — (*see oils from seeds, &c.*)	252
Extracting teeth — (*see dentistry, &c.*)	100
Extracts, infusions, decoctions	122
Eyelets — (*see buttons, &c.*)	54
Fabrics; elastic fabrics	123
Fabrics made in lace machinery — (*see weaving, &c.*)	425
Fabrics made by cementation, mosaic fabrics — (*see cemented fabrics, &c.*)	68
Fabrics made by felting — (*see fulling, &c.*)	149
Fabrics made by weaving — (*see weaving, &c.*)	421
Fabrics or cloths,–coating, covering, and lining (*see coating, &c.*)	79
Fabrics or pile fabrics,–cutting the pile of — (*see cutting, &c.*)	95
Facilitating hearing — (*see surgery, &c.*)	389
Facilitating passage of trains up steep gradients — (*see propelling, &c.*)	299
Facilitating progress of carriages — (*see propelling, &c.*)	299
Facilitating the aiming with fire-arms — (*see fire-arms, &c.*)	134
Facilitating the extinguishing of fires — (*see fire-engines, &c.*)	139
Facilitating the working and discharge of ordnance — (*see fire-arms, &c.*)	134
Facing or lining metallic surfaces — (*see coating, &c.*)	75
Facing or lining wood, glass, &c. — (*see coating, &c.*)	79
Fans and other blowers — (*see air supplying, &c.*)	13
Fasteners for Albert guards — (*see jewellery, &c.*)	193
Fasteners for crinolines — (*see petticoats, &c.*)	269
Fasteners for windows — (*see windows, &c.*)	436
Fastening armour plates to ships' sides — (*see fortifications, &c.*)	145
Fastening doors — (*see doors, &c.*)	104
Fastening envelopes — (*see envelopes*)	121
Fastening shoes, stays, and gloves — (*see buttons, &c.*)	54
Fastening the handles of daggers, knives, &c. — (*see knives, &c.*)	199
Fastenings for bags, &c. — (*see bags, &c.*)	24
Fastenings for belts, — (*see belts, &c.*)	28
Fastenings for boxes — (*see boxes, &c.*)	39
Fastenings for dress — (*see buttons, &c.*)	54
Fastenings for gas tubes — (*see gas burners, &c.*)	161
Fastenings for gloves — (*see gloves, &c.*)	165
Fastenings for purses, &c. — (*see purses, &c.*)	316
Fastenings for railways — (*see railways, &c.*)	317
Fastenings or clasps of tobacco pouches — (*see tobacco, &c.*)	399
Fastenings or couplings for jewellery — (*see jewellery, &c.*)	193
Fatty acids — (*see acids, &c.*)	4
Fatty matters — (*see oils from seeds, &c.*)	252
Feathers; flowers; artificial flowers	125
Feed-bottles for infants — (*see medicines, &c.*)	213
Feed motions for machinery — (*see propelling, &c.*)	300
Feeding animals — (*see food for cattle, &c.*)	144
Feeding paper to ruling machines — (*see copying, &c.*)	91
Feeding steam-boilers with water, heating feed water — (*see steam-boilers, &c.*)	375
Feet for levelling clocks — (*see clocks, &c.*)	73
Felted fabrics — (*see fulling, &c.*)	149
Female wearing apparel — (*see petticoats, &c.*)	269
Fences and railings	125
Fenders and fire-irons — (*see fire-places, &c.*)	141

	Page
Fermenting — (*see brewing, &c.*)	44
Ferneries —(*see horticulture, &c.*)	191
Ferrules for umbrellas — (*see umbrellas, &c.*)	402
Fibres (obtaining from plants, recovering from manufactured goods, separating, cleaning, packing)	126
Fibres, – carding, combining, heckling —— (*see spinning, &c.*)	356
Fibres, – opening and preparing for spinning — (*see spinning, &c.*)	354
Fibres, – roving, spinning, doubling, throwing — (*see spinning, &c.*)	359
Figuring or carving wood — (*see wood, &c.*)	440
Figured weaving — (*see weaving, &c.*)	421
Filamentous materials, – combing ——— (*see spinning, &c.*)	356
Files and rasps	129
Files or clips for papers, &c.	130
Fillets of india-rubber, &c., – cutting —— (*see cutting, &c.*)	95
Filling bottles — (*see bottles, &c.*)	38
Filling cartridges — (*see cartridges, &c.*)	60
Filtering, purifying, and clarifying liquids; filters; distilling water; softening water	130
Finger plates for doors — (*see doors, &c.*)	104
Finishing, dressing, singeing, shearing, folding, and pressing woven fabrics, yarns, &c.	131
Finishing metallic surfaces — (*see metals*)	229
Finishing textile fabrics — (*see finishing, &c.*)	131
Fire-arms, guns, ordnance, gun-carriages, targets, rifle-ranges	134
Fire-boxes — (*see furnaces, &c.*)	150
Fire-engines; fire-escapes; extinguishing fires	139
Fire-escapes — (*see fire-engines, &c.*)	139
Fire-guards — (*see fire-places, &c.*)	141
Fire-lighters — (*see fuel, &c.*)	148
Fire-places, grates, and stoves; fenders and fire-irons; fire-guards; coal boxes and cinder sifters	141
Fire-proof and waterproof fabrics — (*see waterproofing, &c.*)	416
Fire-proof buildings — (*see building, &c.*)	50
Fire-proof doors — (*see doors, &c.*)	104
Fire-proof stairs, steps, and landings —— (*see building, &c.*)	50
Fire-pumps — (*see fire-engines, &c.*)	139
Firing explosive projectiles ——— (*see fire-arms, &c.*)	134
Firing gunpowder, gun cotton, &c. —— (*see gunpowder, &c.*)	173
Firing pottery — (*see earthenware, &c.*)	112
Fish plates for railways — (*see railways, &c.*)	317
Fishing-nets; catching fish; harpoons	142
Fitting screw propellers —— (*see propelling, &c.*)	297
Fitting ships' guns — (*see fortifications, &c.*)	145
Fitting window sashes — (*see windows, &c.*)	436
Fittings connected with steam-engines — (*see steam-engines*)	376
Fittings for gas — (*see gas-burners, &c.*)	161
Fixing colours in dyeing — (*see dyeing, &c.*)	109
Fixing colours in printing —— (*see printing, &c.*)	293
Fixing rails of railways — (*see railways, &c.*)	317
Fixing street inscriptions on metallic plates — (*see show-cases, &c.*)	340
Fixing tubes in steam-boilers — (*see steam-boilers, &c.*)	369
Flags and banners — (*see banners, &c.*)	26
Flags used in making footways — (*see paving, &c.*)	266
Flap or trap for covering the entrances of cellars — (*see building, &c.*)	50
Flasks for holding powder ——— (*see gunpowder, &c.*)	173
Flasks for holding shot — (*see shot, &c.*)	339
Flat-grinding and polishing —— (*see grinding, sharpening, &c.*)	172
Flax,–heckling and spinning, —(*see spinning, &c.*)	356
Flies, – catching — (*see destroying insects, &c.*)	101
Floating batteries — (*see fortifications, &c.*)	145
Floating structures or ships — (*see ship building, &c.*)	330
Floating hydraulic lift stage — (*see docks, &c.*)	104
Flock — (*see fulling, &c.*)	149
Flocked fabrics — (*see cemented fabrics, &c.*)	68
Floor-cloths — (*see oil-cloths, &c.*)	250
"Floor-dog" or cramp — (*see building, &c.*)	50
Flooring and roofing — (*see building, &c.*)	50
Floors suitable for stables — (*see stable floors*)	367
Flour casks — (*see casks, &c.*)	61
Flow of gas,–regulating—(*see gas burners, &c.*)	161
Flower stands — (*see horticulture, &c.*)	191
Flowers,–artificial — (*see feathers, &c.*)	125
Flowers of sulphur — (*see sulphur*)	388
Flues and chimneys; chimney tops; curing smoky chimneys; chimney wind-guards	142
Fluid meters — (*see meters, &c.*)	231
Fluo-silicates of lead and baryta—(*see metallic salts, &c.*)	215
Fluo-silicic acid — (*see acids, &c.*)	4
Flutinas — (*see musical instruments, &c.*)	246
Fluting or shaping metal, wood, &c. —— (*see cutting, &c.*)	93
Flyers and spindles — (*see spindles, &c.*)	352
Flying-engines — (*see aërial machines, &c.*)	7
Fog-signals — (*see signals, &c.*)	343
Folding and pressing woven fabrics, &c. — (*see finishing, &c.*)	131
Folding chairs, sofas, bedsteads, &c. —— (*see furniture, &c.*)	155
Folding envelopes — (*see envelopes*)	121
Folding paper — (*see paper, &c.*)	265
Food for cattle, poultry, &c.; chaff-cutting; feeding animals	144
Footstep bearings — (*see axles, &c.*)	21
Footstools or hassocks — (*see upholstery, &c.*)	403
Footways and roadways — (*see paving, &c.*)	266
Forcing and exhausting air —— (*see air supplying, &c.*)	13
Forcing and pumping water, &c. ——— (*see pumps, &c.*)	312
Fore and aft sails — (*see ships' rigging, &c.*)	336
Foreign plants or vegetable substances —— (*see plants, &c.*)	284
Forgery in cheques,–preventing—(*see cheques*)	71
Forging hammer — (*see hammers, &c.*)	179
Forging metals — (*see metals*)	223
Forging nails — (*see nails, &c.*)	247
Forging press — (*see presses, &c.*)	291
Forks — (*see knives, &c.*)	199

	Page
Formation of deposits in steam-boilers, – preventing — (*see steam-boilers, &c.*)	374
"Formed" cordage, &c. — (*see ropes, &c.*)	327
Fortifications, batteries, ships of war, gun-boats, armour-plated ships	145
Fouling of surfaces by deposits, – preventing — (*see oxidation, &c.*)	257
Foundations under water, – forming —— (*see docks, &c.*)	104
Fountains — (*see watering, &c.*)	415
Fowling pieces — (*see fire-arms, &c.*)	134
Fowls, – roasting — (*see cooking, &c.*)	90
Frames for looking-glasses —— (*see looking-glasses, &c.*)	206
Frames for displaying show-cards ——— (*see show-cases, &c.*)	340
Frames for knitting and making lace —— (*see weaving, &c.*)	421
Frames for pictures — (*see pictures, &c.*)	273
Frames for slubbing and roving fibrous substances — (*see spinning, &c.*)	359
Frames for umbrellas, &c. — (*see umbrellas, &c.*)	402
Frames for windows — (*see windows, &c.*)	436
Frames of spectacles —— (*see optical instruments, &c.*)	255
Frames used in dipping splints ——— (*see matches, &c.*)	210
Framing for agricultural implements —— (*see ploughing, &c.*)	285
Freezing water — (*see condensing, &c.*)	87
French pulley rods for curtains — (*see upholstery, &c.*)	403
French windows — (*see windows, &c.*)	436
Friction brush — (*see brushes, &c.*)	49
Friction in steam-engines, – reducing —— (*see steam-engines*)	376
Frills and ruffles for ladies' wear — (*see petticoats, &c.*)	269
Frills and ruffles for shirts — (*see shirts, &c.*)	337
Fringes and braid — (*see weaving, &c.*)	427
Fringes for upholstery — (*see upholstery, &c.*)	403
Fronts for shirts — (*see shirts, &c.*)	337
Fronts for shops — (*see show-cases, &c.*)	340
Fruit, –dressing — (*see preserving food, &c.*)	290
Fuel; treating coal; preparing fire-wood; fire-lighters	148
Fulling and felting; felted fabrics; flock	149
Funeral carriages — (*see carriages, &c.*)	57
Furling sails — (*see ships' rigging, &c.*)	336
Furnaces and fire-boxes; supplying furnaces with fuel	150
Furniture,—bedsteads, tables, chairs, cradles, and nursing-apparatus; casters; bedstead-bottoms	155
Furniture covers — (*see oil-cloths, &c.*)	250
Furniture joints and hinges—(*see joining, &c.*)	195
Furniture of umbrellas and parasols —— (*see umbrellas, &c.*)	402
Furniture for doors — (*see doors, &c.*)	104
Furniture for use of invalids ——— (*see surgery, &c.*)	389
Furniture used in letter-press printing — (*see printing, &c.*)	293
Furrows and ridges in agriculture —— (*see ploughing, &c.*)	285
Fusee watches — (*see clocks, &c.*)	73
Fuses — (*see matches, &c.*)	210
Gaiters — (*see boots, &c.*)	33
Galvanism, galvanic batteries — (*see electricity, &c.*)	114
Galvanizing galvano-plastic work — (*see electro-plating, &c.*)	114
Game bags — (*see bags, &c.*)	24
Games and exercises — (*see toys, &c.*)	400
Garden pots — (*see horticulture, &c.*)	191
Garments for gentlemen's wear — (*see wearing apparel, &c.*)	418
Garments for ladies' wear — (*see peticoats, &c.*)	269
Garters and braces — (*see belts, &c.*)	28
Garter fastenings — (*see buttons, &c.*)	54
Gas, gasometers, holders, and retorts	158
Gas and other burners and regulators; gas fittings; lighting gas; preventing escape of gas	161
Gas engines — (*see air engines, &c.*)	7
Gas fittings — (*see gas burners, &c.*)	161
Gas lamps — (*see lamps, &c.*)	201
Gas meters — (*see meters, &c.*)	231
Gas stoves — (*see fire places, &c.*)	141
Gates — (*see doors, &c.*)	104
Gathering and binding sheaves of corn, &c. — (*see reaping, &c.*)	323
Gauges, safety plugs, water level indicators	162
Gauging length and quantity — (*see measuring length, &c.*)	211
Gauze or wire gauze —— (*see wire working, &c.*)	438
Gavels or sheaves of corn, &c. — (*see reaping &c.*)	323
Gazogene — (*see aërating, &c.*)	6
Gear for driving machinery — (*see straps, &c.*)	386
Gearing for propelling ships — (*see propelling, &c.*)	297
Gelatine, gelatinous substances — (*see starch, &c.*)	368
Genista scoparia (broom) — (*see plants, &c.*)	284
Gentlemen's scarfs — (*see shirts, &c.*)	337
Gentlemen's wearing apparel — (*see wearing apparel, &c.*)	418
Geometrical instruments — (*see compasses, &c.*)	86
Getting coal — (*see mining, &c.*)	232
Gig mills — (*see finishing, &c.*)	131
Gilding leather — (*see coating, &c.*)	79
Gimlets — (*see boring, &c.*)	36
Ginning cotton — (*see spinning, &c.*)	354
Girders and beams — (*see building, &c.*)	50
Girdles or belts for hypogastric complaints — (*see surgery, &c.*)	389
Giving motion to machinery — (*see propelling, &c.*)	300
Giving motion to ships — (*see propelling, &c.*)	297
Giving notices or signals — (*see signals, &c.*)	343
Glass; applications of glass	163
Glass cases for cultivating plants and flowers — (*see horticulture, &c.*)	191
Glasses and shades for lamps — (*see lamps, &c.*)	201
Glazes and lacquer — (*see painting, &c.*)	258

	Page
Glazing textile fabrics, lace, &c. — (*see finishing, &c.*)	131
Glazing windows — (*see windows, &c.*)	436
Globes for lamps — (*see lamps, &c.*)	201
Glossing silks, &c. — (*see finishing, &c.*)	131
Gloves; glove fastenings	165
Glue; glutinous substances — (*see starch, &c.*)	368
Glycerine — (*see oils from seeds, &c.*)	252
Goffering — (*see mangling, &c.*)	207
Gold and silver — (*see metals*)	216
Gold dials — (*see clocks, &c.*)	73
Goloshes — (*see boots, &c.*)	33
Gongs — (*see musical instruments, &c.*)	246
Goniometroscope ——— (*see optical instruments, &c.*)	255
Governors and indicators of speed and power for stationary engines and machinery; starting, stopping, and reversing apparatus; machinery-breaks	166
Grain and grass harvesters ——— (*see reaping, &c.*)	323
Grain and seed,–thrashing, &c. — (*see thrashing, &c.*)	396
Granaries — (*see thrashing, &c.*)	396
Graphite paint — (*see painting, &c.*)	258
Grass edge cutting — (*see horticulture, &c.*)	191
Grass mowing machines — (*see reaping, &c.*)	323
Gravitating power ——— (*see motive power, &c.*)	243
Greasing frictional surfaces ——— (*see oiling, &c.*)	250
Greenhouses — (*see horticulture, &c.*)	191
Grinding and crushing corn, grain, seeds, &c.; dressing flour; millstones	170
Grinding and crushing minerals, clay, fibrous plants, &c.; breaking stone	171
Grinding and sharpening; flat grinding and polishing; grinding surfaces; emery; composition for polishing	172
Grooving and fluting wood, &c. —— (*see cutting, &c.*)	93
Grooving barrels of fire-arms —— (*see fire-arms, &c.*)	134
Ground or earth screws — (*see pile driving*)	275
Growing crops,–applying manure to — (*see sowing, &c.*)	351
Growing shrubs or trees,–boxes for — (*see horticulture &c.*)	191
Grubbing and ploughing land — (*see ploughing, &c.*)	285
Guards and chains for watches — (*see clocks, &c.*)	73
Guards of rifle sights — (*see fire-arms, &c.*)	134
Guide motions for machinery — (*see propelling, &c.*)	300
Guiding or steering ships, carriages, ploughs, &c. — (*see steering, &c.*)	382
Gum, starch gum — (*see starch, &c.*)	368
Gun boats — (*see fortifications, &c.*)	145
Gun carriages — (*see carriages, &c.*)	57
Gun wads — (*see cartridges, &c.*)	60
Gunpowder and explosive compounds; powder flasks	173
Guns, gun barrels, stocks and locks — (*see fire-arms, &c.*)	134
Gutta-percha and india-rubber (preparing, treating, vulcanizing)	174
Gutta-percha and india-rubber as applied in various manufactures	175
Gutters — (*see drains, &c.*)	105
Hair,–imitation of — (*see fibres*)	126
Hair-dressing, &c. — (*see dressing-cases, &c.*)	106
Hammering metals — (*see metals*)	223
Hammers, mallets, adzes, chisels, spades and picks	179
Hammock beds — (*see upholstery, &c.*)	403
Hand-drills used for boring — (*see boring, &c.*)	36
Hand frames for spectacles — (*see optical instruments, &c.*)	255
Hand lamps — (*see lamps, &c.*)	201
Hand stocks and dies — (*see nails, &c.*)	247
Handles for brushes — (*see brushes, &c.*)	49
Handles for scythes — (*see reaping &c.*)	323
Handles for surgical instruments — (*see surgery, &c.*)	389
Handles for swords — (*see bayonets, &c.*)	26
Handles for umbrellas and parasols — (*see umbrellas, &c.*)	402
Handles or holders for pens, &c. — (*see pens, &c.*)	268
Handles or knobs of locks, &c. — (*see locks, &c.*)	205
Hanging gates — (*see doors, &c.*)	104
Hanging window sashes — (*see windows, &c.*)	436
Hansom cabs — (*see carriages, &c.*)	57
Harbours — (*see docks, &c.*)	104
Hardening and tempering metals — (*see metals*)	216
Hardening wood — (*see preserving wood, &c.*)	288
Harmoniums — (*see musical instruments, &c.*)	246
Harness curtains — (*see upholstery, &c.*)	403
Harness or healds for weaving — (*see weaving, &c.*)	429
Harness, saddles, bits, stirrups, and whips; dumb jockeys and numnahs; harnessing; currying horses	179
Harpoons — (*see fishing, &c.*)	142
Harrowing land; harrows —— (*see ploughing, &c.*)	285
Harvesters — (*see reaping, &c.*)	323
Hassocks or footstools — (*see upholstery, &c.*)	403
Hat cloth,–weaving — (*see weaving, &c.*)	421
Hats, caps, bonnets, ladies' caps, cap-fronts, rouches; coverings for the head	181
Hauling ships ashore — (*see hoists, &c.*)	187
Hay-making machines — (*see reaping, &c.*)	323
Heads for lead pencils — (*see pens, &c.*)	268
Healds or heddles for weaving — (*see weaving, &c.*)	429
Hearing,–facilitating — (*see surgery, &c.*)	389
Heat indicators — (*see thermometers, &c.*)	395
Heaters for pressing seams of garments — (*see wearing apparel, &c.*)	418
Heating and evaporating; regulating heat	182
Heckling flax and other fibres —— (*see spinning, &c.*)	356
Heddles or healds for weaving — (*see weaving, &c.*)	429
Heels for boots and shoes — (*see boots, &c.*)	33
Hemostatic and antiseptic agents — (*see medicines, &c.*)	213

	Page
Hemp and flax,-heckling and spinning — (*see spinning, &c.*)	354
Hermetically covering vases — (*see vases*)	409
Hermetically stoppering jars — (*see bottles &c.*)	38
Hernia,-trusses and bandages for —— (*see surgery, &c.*)	389
Hewing or working coal — (*see mining, &c.*)	232
Hides and skins — (*see leather, &c.*)	203
High boots — (*see boots, &c.*)	33
High pressure steam-engines —— (*see steam-engines.*)	376
High pressure taps — (*see valves, &c.*)	405
Hinges and joints — (*see joining, &c.*)	195
Hoeing land, horse hoes — (*see ploughing, &c.*)	285
Hoisting ships' cargo — (*see ship building, &c.*)	330
Hoists, cranes, capstans, windlasses; raising and lowering heavy bodies; raising from mines; raising sunken ships	187
Holders for brushes — (*see brushes, &c.*)	49
Holders for candles — (*see lamps, &c.*)	201
Holders for cigars — (*see tobacco, &c.*)	399
Holders for gas — (*see gas, &c.*)	158
Holders for bonnet fronts, &c. ——— (*see boxes, &c.*)	39
Holders for pens, pencils, &c. — (*see pens, &c.*)	268
Holdfasts or dowels — (*see nails, &c.*)	247
Holding cords for window-blinds — (*see window-blinds &c.*)	436
Holding papers, invoices, &c. — (*see files or clips, &c.*)	130
Holding up the skirts of ladies' gowns — (*see petticoats, &c.*)	269
Holds of ships — (*see ship building, &c.*)	330
Hollow tubes or bodies — (*see pipes, &c.*)	278
Homogeneous iron — (*see metals*)	216
Hoods for chimneys — (*see flues, &c.*)	142
Hooks — (*see chains, &c.*)	69
Hooks and eyes — (*see buttons, &c.*)	54
Hooped petticoats or crinolines — (*see petticoats, &c.*)	269
Hoops and rings — (*see chains, &c.*)	69
Hops — (*see brewing, &c.*)	44
Horn,-artificial — (*see bones, &c.*)	31
Horse power — (*see motive-power, &c.*)	243
Horse radish or cochlearia armoracia — (*see plants, &c.*)	284
Horse rakes and harrows — (*see ploughing, &c.*)	285
Horse rakes used in harvesting — (*see reaping, &c.*)	323
Horse shoes, shoeing horses, horse-shoe nails	190
Horticulture, hothouses, greenhouses, ferneries, horticultural cases, garden pots, flower stands; lawn mowing; sulphuring vines	191
Hose pipes — (*see pipes, &c.*)	278
Hot-air engines — (*see air engines, &c.*)	8
Hot air treatment to relieve bodily pain — (*see medicines, &c.*)	213
Hot blast — (*see air supplying, &c.*)	13
Hot water treatment — (*see medicines, &c.*)	213
Hothouses — (*see horticulture, &c.*)	191
Houses and tents — (*see building, &c.*)	50
Hulling or shelling grain and seeds — (*see thrashing, &c.*)	396
Human excrement,-deodorizing ——— (*see manure, &c.*)	208
Huts and tents — (*see building, &c.*)	50
Hydrated oxide of iron —— (*see metallic salts, &c.*)	215
Hydraulic apparatus or pumps ——— (*see pumps, &c.*)	312
Hydraulic cement — (*see cement, &c.*)	67
Hydraulic lift stage for ships — (*see docks, &c.*)	104
Hydraulic motive-power—(*see waterwheels, &c.*)	417
Hydraulic presses, hydraulic rams —— (*see presses, &c.*)	291
Hydro-carbons — (*see oils of tar, &c.*)	254
Hydro-chloric acid — (*see acids, &c.*)	4
Hydro-pneumatic motive power —— (*see air engines, &c.*)	8
Hydrogen gas — (*see gas, &c.*)	158
Hygrometers — (*see thermometers, &c.*)	395
Hypogastric girdles or belts —— (*see surgery, &c.*)	389
Ice — (*see condensing, &c.*)	87
Iceland moss — (*see plants, &c.*)	284
Igniting candles — (*see candles, &c.*)	56
Igniting gun cotton, gunpowder, &c.— (*see gunpowder, &c.*)	173
Igniting matches — (*see matches, &c.*)	210
Igniting or firing explosive projectiles — (*see fire-arms, &c.*)	134
Imitation of cameos — (*see embossing, &c.*)	118
Imitation of ebony and bogwood —— (*see wood, &c.*)	440
Imparting motion to machinery — (*see propelling, &c.*)	300
Impermeable varnishes— (*see painting, &c.*)	258
Impressing devices from rolls — (*see engraving, &c.*)	120
Increasing draft — (*see air supplying, &c.*)	9
Increasing effect of motive power — (*see propelling, &c.*)	300
Increasing generation of steam — (*see steam-boilers, &c.*)	369
Increasing illuminating power of gas — (*see gas, &c.*)	158
Incrustations and deposits,-preventing and removing — (*see oxidation, &c.*)	257
Indelible anti-corrosive ink — (*see inks, &c.*)	192
Indexing apparatus — (*see measuring length, &c.*)	211
India-rubber,-preparing, treating, vulcanizing — (*see gutta-percha, preparing, &c.*)	174
India-rubber as applied in various manufactures — (*see gutta-percha, as applied, &c.*)	175
India-rubber pipes — (*see pipes, &c.*)	278
India-rubber springs — (*see springs*)	365
India-rubber webs,-weaving —— (*see weaving, &c.*)	427
India shawls — (*see petticoats, &c.*)	269
Indicating depth and height of liquids — (*see gauges, &c.*)	162
Indicating depth of water — (*see measuring progress, &c.*)	212
Indicating escapes of gas — (*see gas burners, &c.*)	161
Indicating heat — (*see thermometers, &c.*)	395
Indicating position of sunken ships — (*see buoys, &c.*)	53
Indicating "score" for billiards ——— (*see billiard tables, &c.*)	29

	Page
Indicating speed and power of stationary machinery — (*see governors, &c.*)	166
Indicating speed of locomotives, carriages, and ships — (*see measuring progress, &c.*)	212
Indicating water levels — (*see gauges, &c.*)	162
Indicating weight — (*see weighing, &c.*)	431
Induction and eduction valves — (*see valves, &c.*)	405
Induction coils and magnets — (*see electricity, &c.*)	114
Induration of stone, &c. — (*see preserving wood, &c.*)	288
Infants' feed bottles — (*see medicines, &c.*)	213
Infusions — (*see extracts, &c.*)	122
Ingots or metallic ingots — (*see casting metals, &c.*)	62
Injections,-administering — (*see medicines, &c.*)	213
Injurious effects of smoke,-preventing — (*see smoke prevention, &c.*)	348
Inks, inkstands, pen trays	192
Inlaid flooring — (*see building, &c.*)	50
Inlaying; inlaid-work	193
Insects,-destroying — (*see destroying insects, &c.*)	101
Instruments for extracting teeth — (*see dentistry, &c.*)	100
Instruments for taking observations — (*see compasses, &c.*)	86
Instruments for testing — (*see testing apparatus*)	394
Instruments used in drawing — (*see copying, &c.*)	91
Instruments used in surgery — (*see surgery, &c.*)	389
Insulating conducting wires for telegraphs — (*see telegraphs, &c.*)	391
Introducing air — (*see air supplying, &c.*)	13
Invalid beds, furniture and carriages — (*see surgery, &c.*)	389
Invalids' feeding apparatus — (*see medicines, &c.*)	213
Inverness capes — (*see wearing apparel, &c.*)	418
Iodine — (*see alkalies, &c.*)	18
Iron and steel — (*see metals*)	216
Iron blinds for windows — (*see window blinds, &c.*)	436
Iron castings — (*see casting metals, &c.*)	62
Iron-clad ships — (*see fortifications, &c.*)	145
Iron pavements—(*see paving, &c.*)	266
Iron rails — (*see fences, &c.*)	125
Ironing—(*see mangling, &c.*)	207
Ironing stoves — (*see fire-places, &c.*)	141
Ironwork fittings for walls or buildings — (*see building, &c.*)	50
Irregular forms in wood — (*see wood, &c.*)	440
Irrigating land — (*see watering, &c.*)	415
Ivory,-artificial — (*see bones, &c.*)	31
Jack machinery for moving heavy bodies — (*see vices, &c.*)	412
Jacquard machines or looms — (*see weaving, &c.*)	421
Jars and bottles — (*see bottles, &c.*)	38
Jellies — (*see preserving food, &c.*)	290
Jetties — (*see docks, &c.*)	104
Jewellery, lockets, brooches, bracelets, watch chains, swivels and keys	193
Joining, jointing, coupling; pipe joints, railway joints, furniture joints, and hinges; packing for joints	195
Joists or beams — (*see building, &c.*)	50
Journals and bearings — (*see axles, &c.*)	21
Juice from sugar cane — (*see sugar, &c.*)	387
Juncus serratus and juncus trista — (*see plants, &c.*)	284
Justifying and setting printers' type — (*see printing, &c.*)	293
Jute — (*see fibres*)	126
Kamptulicon — (*see oilcloths &c.*)	250
Kent brush drill for sowing seed — (*see sowing, &c.*)	351
Keys and locks — (*see locks, &c.*)	205
Keys for watches — (*see clocks, &c.*)	73
Kilns — (*see ovens, &c.*)	256
Kitchen-ranges — (*see fireplaces, &c.*)	141
Knapsacks — (*see wearing apparel, &c.*)	418
Kneading-machines used in bread making — (*see bread, &c.*)	41
Knee caps and surgical stockings — (*see surgery, &c.*)	389
Knickerbockers — (*see boots, &c.*)	33
Knitting — (*see weaving, &c.*)	421
Knives, forks, spoons, scissors, shears; cleaning knives	199
Knobs for doors — (*see doors, &c.*)	104
Knobs of locks, &c. — (*see locks, &c.*)	205
Lac varnishes — (*see painting, &c.*)	258
Lace making — (*see weaving, &c.*)	421
Laces for boots — (*see boots, &c.*)	33
Lacquer and glazes — (*see painting, &c.*)	258
Ladies' attire — (*see petticoats, &c.*)	269
Ladies' caps — (*see hats, &c.*)	181
Ladies' work-boxes — (*see boxes, &c.*)	39
"Laid" cordage, &c. — (*see ropes, &c.*)	327
Lamp black — (*see charcoal, &c.*)	70
Lamps, lanterns, chandeliers, candlesticks, lamp furniture, glasses and shades; lighting	201
Lamp wicks — (*see candles, &c.*)	56
Lancets — (*see surgery, &c.*)	389
Land batteries — (*see fortifications, &c.*)	145
Land steam-boilers — (*see steam-boilers, &c.*)	369
Landaus — (*see carriages, &c.*)	57
Landing-stages — (*see docks, &c.*)	104
Landings and staircases — (*see building, &c.*)	50
Lanterns — (*see lamps, &c.*)	201
Lapping used in printing machines — (*see printing, &c.*)	293
Larder "safe" — (*see preserving food, &c.*)	290
Lasts — (*see boots, &c.*)	33
Latches — (*see locks, &c.*)	205
Lathes for turning — (*see turning, &c.*)	401
Laths for bedsteads — (*see furniture, &c.*)	155
Laths or scantling — (*see cutting, &c.*)	93
Launching ships — (*see ship building, &c.*)	330
Laundries — (*see washing, &c.*)	412
Lava and other volcanic substances — (*see stone, &c.*)	384
Lavatories — (*see washing, &c.*)	412

	Page
Lawn mowing-machines — (*see horticulture, &c.*)	191
Laying down submarine telegraphic wires — (*see telegraphs, &c.*)	391
Laying wood floors — (*see building, &c.*)	50
Lead — (*see metals*)	216
Lead pencils — (*see pens, &c.*)	266
Lead pipes — (*see pipes, &c.*)	278
Leather, skins and hides; artificial leather and parchment; unhairing and tanning leather; cutting and ornamenting leather; making leather laces	203
Leaves of photographic albums — (*see photography, &c.*)	272
Leggings — (*see boots, &c.*)	33
Lenses — (*see optical instruments, &c.*)	255
Loosening slip of locomotive driving wheels — (*see propelling, &c.*)	299
Letters for shop signs — (*see show-cases, &c.*)	340
Letters or types used in printing — (*see printing, &c.*)	293
Letters, writings, and drafts,–copying — (*see copying, &c.*)	91
Letting go cords for window blinds — (*see window-blinds, &c.*)	436
Letting-off motion in looms—(*see weaving, &c.*)	429
Letting off water, &c. — (*see valves, &c.*)	405
Letting off water from steam cylinders — (*see steam-engines, &c.*)	376
Levelling clocks — (*see clocks, &c.*)	73
Levels — (*see compasses, &c.*)	86
Lever for increasing pressure — (*see presses, &c.*)	291
Lever measurements or level balances — (*see compasses, &c.*)	86
Life belts and swimming belts — (*see swimming, &c.*)	390
Lift pumps for sewer works — (*see drains, &c.*)	105
Lifting and forcing water, &c. — (*see pumps, &c.*)	312
Lifting casks — (*see casks, &c.*)	61
Lifting weights from mines — (*see mining, &c.*)	232
Light oil and benzole — (*see oils of tar, &c.*)	254
Light or illumination, lighting — (*see lamps, &c.*)	201
Lighthouses — (*see buoys, &c.*)	53
Lighters and barges — (*see ship building, &c.*)	330
Lighting cigars — (*see matches, &c.*)	210
Lighting gas — (*see gas-burners, &c.*)	161
Lighting pipes and cigars — (*see tobacco. &c.*)	399
Lights or roof lights — (*see windows, &c.*)	436
Line and cord — (*see ropes, &c.*)	327
Linen buttons — (*see buttons, &c.*)	54
Lining metallic surfaces — (*see coating, &c.*)	75
Linings for gentlemen's wearing-apparel — (*see wearing apparel, &c.*)	418
Linings for ladies' dresses — (*see petticoats, &c.*)	269
Links for chains — (*see chains, &c.*)	69
Linseed oil — (*see oils from seeds, &c.*)	252
Liquid meters — (*see meters, &c.*)	231
Liquors,–spirituous — (*see distilling, &c.*)	101
Lithographic printing — (*see printing, &c.*)	293
Loading and unloading ships — (*see ship building, &c.*)	330
Loaves of sugar — (*see sugar, &c.*)	387
Lockets — *see jewellery, &c.*	193
Locking nuts on railway rail bolts — (*see railways, &c.*)	317
Locking wheels of carriages — (*see breaks, &c.*)	42
Locks, latches, bolts, lock furniture; safes and tills	205
Locks for receiving and securing umbrellas — (*see umbrellas, &c.*)	402
Locks of fire-arms — (*see fire-arms, &c.*)	134
Locomotion on land — (*see propelling, &c.*)	299
Locomotion on water — (*see propelling, &c.*)	297
Locomotive steam-engines — (*see steam-engines*)	376
Log frames for sawing timber — (*see cutting, &c.*)	93
Logs or ships' logs — (*see measuring progress, &c.*)	212
Looking-glasses and frames	206
Loom breaks — (*see weaving, &c.*)	429
Loom pickers — (*see weaving, &c.*)	429
Looms for weaving — (*see weaving, &c.*)	421
Looped and knitted fabrics — (*see weaving, &c.*)	421
Low pressure steam-engines — (*see steam-engines*)	376
Low water indicators — (*see gauges, &c.*)	162
Lowering heavy bodies — (*see hoists, &c.*)	187
Lowering into mines or pits — (*see mining, &c.*)	232
Lowering or altering position of parts of machinery in motion — (*see propelling, &c.*)	300
Lowering or striking ships' masts — (*see ships' rigging, &c.*)	336
Lowering ships' boats — (*see ships' boats, &c.*)	336
Lubricating — (*see oiling, &c.*)	250
Lucifer matches — (*see matches, &c.*)	210
Lumber,–planing — (*see cutting, &c.*)	93
Lute or mortar — (*see cement, &c.*)	67
Machine for cleaning boots — (*see boots, &c.*)	33
Machine for folding envelopes—(*see envelopes*)	121
Machinery-breaks — (*see governors, &c.*)	166
Machinery-wheels — (*see wheels for machinery, &c.*)	434
Machines worked by concentrated power — (*see steam-engines*)	376
Magic lanterns — (*see optical instruments, &c.*)	255
Magnetic motive-power — (*see motive-power, &c.*)	243
Magnetism — (*see electricity, &c.*)	114
Mailing ships of war — (*see fortifications, &c.*)	145
Making leather laces — (*see leather, &c.*)	203
Making plaits in lieu of hair — (*see dressing cases, &c.*)	106
Making up small quantities of drugs — (*see medicines, &c.*)	213
Malleable iron and steel — (*see metals*)	216
Mallets — (*see hammers, &c.*)	179
Malt and hops — (*see brewing, &c.*)	44
Mangling, ironing, goffering, rouching	207
Manifold drilling machine — (*see boring, &c.*)	36
Manœuvring ships — (*see ship building, &c.*)	330
Mantel-pieces	208
Mantelets — (*see fire-arms, &c.*)	134
Mantles for ladies' wear—(*see petticoats, &c.*)	269

	Page
Manufacture or finishing of woven fabrics — (*see finishing, &c.*)	131
Manufacture or weaving of woven fabrics — (*see weaving, &c.*)	421
Manure; treating sewage	208
Manuring or distributing manure — (*see sowing, &c.*)	351
Maps, representing atmospherical phenomena	210
Marine propulsion — (*see propelling, &c.*)	297
Marine steam-boilers — (*see steam-boilers, &c.*)	369
Marine steam-engines — (*see steam-engines*)	376
Markers and targets — (*see fire-arms, &c.*)	134
Markers for books — (*see books, &c.*)	32
Markers used with billiards — (*see billiard tables, &c.*)	29
Markets,–building — (*see building, &c.*)	50
Marking jacquard plates — (*see weaving, &c.*)	421
Marking linen, &c. — (*see stamps, &c.*)	367
Marking pattern cards for looms —— (*see weaving, &c.*)	421
Mashing malt, mashing-attemperators — (*see brewing, &c.*)	44
Masticators for india-rubber and gutta-percha — (*see gutta-percha, preparing, &c.*)	174
Masts for ships — (*see ship building, &c.*)	330
Matches, fuses, pipe lights, spills	210
Matchets — (*see bayonets, &c.*)	26
Mathematical instruments —— (*see compasses, &c.*)	86
Matrices for printing-surfaces —— (*see printing, &c.*)	293
Mats and matting — (*see upholstery, &c.*)	403
Mats for the table — (*see oil cloths, &c.*)	250
Mattresses and pillows, mattress-cases — (*see upholstery, &c.*)	403
Meadow land,–irrigating — (*see watering, &c.*)	415
Measuring and gauging length, size, and quantity; registering and counting work performed in machines, looms, &c.; counting money	211
Measuring and registering progress of locomotives, carriages, and ships; counting apparatus or turnstiles for cabs, &c.; measuring depth of water and velocity of streams; taking soundings	212
Measuring angles—(*see compasses, &c.*)	86
Measuring gas by meter — (*see meters, &c.*)	231
Meat or animal food,–preserving — (*see preserving food, &c.*)	290
Meat or animal food,–roasting — (*see cooking, &c.*)	90
Mechanical beds for invalids — (*see surgery, &c.*)	389
Mechanical compression of substances — (*see presses, &c.*)	291
Mechanical kneading trough—(*see bread, &c.*)	41
Mechanical motive-power —— (*see motive-power, &c.*)	243
Mechanism of clocks — (*see clocks, &c.*)	73
Medals; medallions and coins—(*see coins, &c.*)	85
Medicated baths — (*see medicines, &c.*)	213
Medicated belts, bands, &c. —— (*see medicines, &c.*)	213
Medicines and curative apparatus; infants' feed bottles; chest-expanders; medical baths; invalid beds, &c.	213
Melting steel — (*see metals*)	216
Melting-pots or crucibles — (*see retorts, &c.*)	326
Men's scarfs, cravats and neckties —— (*see shirts, &c.*)	337
Mercurial thermometers — (*see thermometers, &c.*)	395
Mercurial timekeepers — *see clocks, &c.*)	73
Mercury gauges — (*see gauges, &c.*)	162
Meshed fabrics—(*see weaving, &c.*)	425
Metal buoys — (*see buoys, &c.*)	53
Metal casing for defence of ships, &c. — (*see fortifications, &c.*)	145
Metal used in road making — (*see paving, &c.*)	266
Metallic alloys and substitutes (*see metals*)	216
Metallic salts and oxides	215
Metallizing corners of playing cards —— (*see coating, &c.*)	79
Metals	216
Meteorological phenomena or influences,–representing — (*see maps, &c.*)	210
Meters for gas and fluids	231
Mica — (*see alkalies, &c.*)	18
Microscopes — (*see optical instruments, &c.*)	255
Military decorations —— (*see wearing apparel, &c.*)	418
Milk — (*see preserving food, &c.*)	290
Milk,–preparing for making butter —— (*see churns, &c.*)	72
Millboard and cardboard — (*see paper, &c.*)	261
Mills for grinding coffee — (*see coffee, &c.*)	84
Mills for grinding corn, millstones — (*see grinding corn, &c.*)	170
Mills for warping yarns — (*see weaving, &c.*)	420
Mincing meat — (*see preserving food, &c.*)	290
Mineral oils — (*see oils of tar, &c.*)	254
Mineral ores — (*see metals*)	216
Minerals,–raising from mines — (*see mining, &c.*)	232
Miniature and picture-frames —— (*see pictures, &c.*)	273
Miniature microscopes — (*see optical instruments, &c.*)	255
Mining, boring, and blasting rock; raising coals, &c. from mines; draining, lighting, and ventilating mines	232
Missiles — (*see shot, &c.*)	339
Mitre boxes — (*see cutting, &c.*)	93
Mitreing mouldings — (*see mouldings, &c.*)	244
Mixed coloured threads — (*see threads, &c.*)	398
Mixed press — (*see presses, &c.*)	291
Mixing, mashing	234
Mixture and preparation of tea —— (*see coffee, &c.*)	84
Moisture,–expressing — (*see drying, &c.*)	107
"Moka-beer" — (*see brewing, &c.*)	44
Momentum of railway trains,–utilizing — (*see propelling, &c.*)	299
Monumental slabs — (*see pillars, &c.*)	275
Mordants — (*see dyeing, &c.*)	109
Mortar and cement — (*see cement, &c.*)	67
Mortars and ordnance — (*see fire-arms, &c.*)	134
Mortising-machines — (*see cutting, &c.*)	93
Motive-power machines; obtaining motive-power	235
Motors or prime movers —— (*see motive-power, &c.*)	235

	Page
Moulding and casting metals — (*see casting metals, &c.*)	52
Moulding bricks and tiles — (*see bricks, &c.*)	45
Moulding plastic materials — (*see casting plastic, &c.*)	64
Mouldings and architectural ornaments	244
Moulds and core boxes for metal castings — (*see casting metals, &c.*)	52
Moulds for candles — (*see candles, &c.*)	56
Moulds used in making sugar — (*see sugar, &c.*)	387
Mountain barometers — (*see thermometers, &c.*)	395
Mounting cots or cradles — (*see furniture, &c.*)	155
Mounting ships' guns — (*see fortifications, &c.*)	145
Mounting tablets, show bills &c. — (*see show-cases, &c.*)	340
Mourning carriages — (*see carriages, &c.*)	57
Moveable spanners or screw wrenches — (*see vices, &c.*)	412
Movements for timekeepers — (*see clocks, &c.*)	73
Moving grain in granaries — (*see thrashing, &c.*)	396
Mowing and reaping machines — (*see reaping, &c.*)	323
Mules for spinning — (*see spinning, &c.*)	359
Multiple rollers — (*see cylinders, &c.*)	96
Multiplying or increasing motive power — (*see propelling, &c.*)	300
Muriate of iron — (*see metallic salts, &c.*)	215
Musical instruments; music stands; turning ing over leaves of music	246
Muslin printing — (*see printing, &c.*)	293
Muzzle-loading small arms — (*see fire-arms, &c.*)	134
Nails and spikes; bolts and rivets; screws and screw-blanks; nuts and washers; screw-stocks and dies; dowels or holdfasts	247
Name plates — (*see show-cases, &c.*)	340
Naphtha and naphthaline — (*see oils of tar, &c.*)	254
Napthylamina,–colours derived from — (*see dyes, &c.*)	111
Narrow fabrics, ribbons, &c.,–weaving — (*see weaving, &c.*)	427
Natatory apparatus — (*see swimming, &c.*)	390
Nautical instruments — (*see compasses, &c.*)	86
Naval architecture — (*see ship building, &c.*)	330
Neck-ties and cravats — (*see shirts, &c.*)	337
Needle or tapestry work — (*see sewing, &c.*)	328
Needles and pins — (*see pins, &c.*)	277
Nervine tonic — (*see medicines, &c.*)	213
Net or bobbin net — (*see weaving, &c.*)	421
Nets or meshed fabrics — (*see weaving, &c.*)	425
Nets used in fishing — (*see fishing, &c.*)	142
New Zealand flax — (*see fibres*)	126
Night lights — (*see candles, &c.*)	56
Nitrate of aniline, &c. — (*see dyes, &c.*)	111
Nitric acid — (*see acids, &c.*)	4
Nitrogenous compounds — (*see alkalies, &c.*)	18
Nitrogenous gases — (*see gas, &c.*)	158
Nose bags — (*see bags, &c.*)	24
Notches in wood, &c.,–grooving — (*see cutting, &c.*)	93
"Nottingham" perambulator — (*see carriages, &c.*)	57
Numnahs — (*see harness, &c.*)	179
Nursing apparatus, nursery chairs — (*see furniture, &c.*)	155
Nuts and washers — (*see nails, &c.*)	247
Oakum,–picking and cleaning — (*see fibres*)	126
Oats and beans,–hulling or shelling — (*see thrashing, &c.*)	396
Object glasses of telescopes — (*see optical instruments, &c.*)	255
Obtaining fresh water from salt water — (*see filtering, &c.*)	130
Obtaining light — (*see lamps, &c.*)	201
Obtaining products from ores — (*see metals*)	216
Obviating down draughts in chimneys — (*see flues, &c.*)	142
Odontalgic elixir — (*see dentistry, &c.*)	100
Office boxes — (*see boxes, &c.*)	39
Oil-cloths, floor-cloths, furniture covers, tarpauling, awnings; kamptulicon	250
Oiling or lubricating; materials for oiling; oil cans and lubricators	250
Oils from seeds, &c.; treating oily and fatty matters; animal oils; glycerine, stearine	252
Oils of tar, bitumen, and resin; naphtha, paraffine, &c.; mineral oils, hydro-carbons, phosphorous	254
Ointments and plasters — (*see medicines, &c.*)	213
Oleaginous distillation — (*see distilling, &c.*)	103
Omnibuses — (*see carriages, &c.*)	57
Opening and preparing fibres for spinning — (*see spinning, &c.*)	354
Opening bottles and jars — (*see bottles, &c.*)	38
Opera glasses — (*see optical instruments*)	255
Optical instruments; spectacles	255
Orchard houses — (*see horticulture, &c.*)	191
Ordnance — (*see fire-arms, &c.*)	134
Ores and metals — (*see metals*)	216
Organs — (*see musical instruments, &c.*)	246
Ornamental mouldings — (*see mouldings, &c.*)	244
Ornamenting caddies — (*see boxes, &c.*)	39
Outer clothing for gentlemen's wear — (*see wearing apparel, &c.*)	418
Oval picture-frames — (*see pictures, &c.*)	273
Ovens and kilns	256
Over-winding at coal mines,–preventing — (*see mining, &c.*)	232
Oxidation and incrustation (preventing and removing); oxidising	257
Oxi-sulphate of lead — (*see metallic salts, &c.*)	215
Oxides and metallic sulphates, &c. — (*see metallic salts, &c.*)	215
Oxygen gas — (*see gas, &c.*)	158
Packing bottles — (*see bottles, &c.*)	38
Packing fibres — (*see fibres*)	126
Packing or pressing — (*see presses, &c.*)	291
Packing small quantities of drugs — (*see medicines, &c.*)	213
Packings for axles — (*see axles, &c.*)	21
Packings for joints — (*see joining, &c.*)	195
Packings for pistons — (*see pistons, &c.*)	282
Packings for pumps — (*see pumps, &c.*)	312

	Page
Paddle wheels and screw propellers — (*see propelling, &c.*)	297
Painting, colouring and varnishing; paints, colours, varnishes, glazes, and lacquer	258
Palates,-artificial — (*see dentistry, &c.*)	100
Palm oil — (*see oils from seeds, &c.*)	252
Panels for bedsteads — (*see furniture, &c.*)	155
Panels used by painters — (*see painting, &c.*)	258
Pantaloons and trousers — (*see wearing apparel, &c.*)	418
Paper bags — (*see bags, &c.*)	24
Paper, pasteboard, and papier mâché; paper hangings	261
Paper pipes — (*see pipes, &c.*)	278
Parachute toys — (*see toys, &c.*)	400
Paraffine — (*see oils of tar, &c.*)	254
Parasols and umbrellas — (*see umbrellas, &c.*)	402
Parcelling and packing — (*see presses, &c.*)	291
Partial tubes — (*see pipes, &c.*)	278
Partition walls — (*see building, &c.*)	50
Passage of trains up steep gradients,-facilitating — (*see propelling, &c.*)	299
Passenger carriages — (*see carriages, &c.*)	57
Passes or tickets for railway passengers — (*see stamps, &c.*)	367
Paste for making bread — (*see bread, &c.*)	41
Paste made from wood — (*see wood, &c.*)	440
Paste or grease for railway wheels — (*see oiling, &c.*)	250
Pasteboard — (*see paper, &c.*)	261
Pastes or cheese pastes — (*see churns, &c.*)	72
Pastiles for deodorizing — (*see disinfecting, &c.*)	101
Pattern cards used in weaving — (*see weaving, &c.*)	421
Patterns,-producing raised — (*see embossing, &c.*)	118
Patterns,-producing sunken — (*see engraving, &c.*)	120
Paving and road-making; pavements	266
Pawnbrokers' duplicate tickets — (*see stamps, &c.*)	367
Paying out telegraphic cables — (*see telegraphs, &c.*)	391
"Pearl hardening" used in making paper — (*see paper, &c.*)	261
Peat	267
Peat black — (*see painting, &c.*)	258
Peeling corn — (*see grinding corn, &c.*)	170
Pegging shoes — (*see boots, &c.*)	33
Pegs and nails — (*see nails, &c.*)	247
Pen trays — (*see inks, &c.*)	192
Pencils and pencil cases — (*see pens, &c.*)	268
Pendent lamps — (*see lamps, &c.*)	201
Pens, penholders, pencils, and pencil cases	268
Perambulators — (*see carriages, &c.*)	57
Percussion caps — (*see fire-arms, &c.*)	134
Perfecting stereotype plates — (*see printing, &c.*)	293
Perforating, drilling, and boring — (*see boring, &c.*)	36
Perfumery — (*see dressing cases, &c.*)	106
Permanent way of railways — (*see railways, &c.*)	317
Perpetual calendars — (*see clocks, &c.*)	73
Pet taps — (*see valves, &c.*)	405
Petticoats, skirts, stays, busts, crinolines, mantles, ruffles, collars, and other like articles of ladies' attire	269
Phosphate of lime — (*see alkalies, &c.*)	18
Phosphorised nervine tonic — (*see medicines, &c.*)	213
Phosphorus — (*see oils of tar, &c.*)	254
Photographic albums — (*see books, &c.*)	32
Photography and photographic apparatus; stereoscopes	272
Pianofortes — (*see musical instruments, &c.*)	246
Pickers used in weaving — (*see weaving, &c.*)	429
Picking oakum — (*see ropes, &c.*)	327
Picks and spades — (*see hammers, &c.*)	179
Picric acid — (*see acids, &c.*)	4
Pictures, picture-frames; exhibiting views	273
Piercing, drilling and boring — (*see boring, &c.*)	36
Piercing jacquard plates or cards — (*see weaving, &c.*)	421
Piers, jetties, docks, &c. — (*see docks, &c.*)	104
Pig-singeing — (*see singeing pigs*)	347
Pigments and colours — (*see painting, &c.*)	258
Pile and terry fabrics,-weaving — (*see weaving, &c.*)	421
Pile-driving	275
Piles used in galvanic batteries — (*see electricity, &c.*)	114
Pillar beer-engines — (*see pumps, &c.*)	312
Pillars, columns, posts, slabs, statuary	275
Pillars for supporting roofs of coal mines — (*see mining, &c.*)	232
Pillows and mattresses — (*see upholstery, &c.*)	403
Pinions and toothed wheels — (*see wheels for machinery, &c.*)	434
Pins and needles	277
Pins for hair, dress, jewellery, &c. — (*see jewellery, &c.*)	193
Pipe lights — (*see matches, &c.*)	210
Pipes, tubes, and syphons; tobacco pipes; joining pipes	278
Pistons and piston packings	282
Pitch and tar — (*see tar, &c.*)	390
Placing fog signals on railways — (*see signals, &c.*)	343
Planing metal, wood, &c. — (*see cutting, &c.*)	93
Plantain fibres — (*see fibres*)	126
Plants, sea-weed, &c.,-treatment of	284
Plaster and cement — (*see cement, &c.*)	67
Plastering — (*see building, &c.*)	50
Plastic materials — (*see casting plastic, &c.*)	64
Plate glass — (*see glass, &c.*)	163
Plate holders for photographic purposes — (*see photography, &c.*)	272
Plates for dinner service — (*see trays, &c.*)	401
Plates for doors — (*see doors, &c.*)	104
Plates of iron coated with tin or lead — (*see coating, &c.*)	75
Plates or cards for jacquard machines — (*see weaving, &c.*)	421
Platform scales used in weighing — (*see weighing, &c.*)	431
Plating metals — (*see coating, &c.*)	75
Playing-cards	285
Ploughing, digging, clod-crushing, land-rolling, harrowing; agricultural implements; tilling and cultivating land; weeding	285

	Page
Plugging or closing inkstands, &c. — (*see inks, &c.*)	192
Plugs and specula used in surgery — (*see surgery, &c.*)	389
Plugs for closing passages for flow of liquids — (*see valves, &c.*)	405
Plummets and gauges — (*see gauges, &c.*)	162
Plungers and buckets for pumps —— (*see pumps, &c.*)	312
Pneumatic motive-power—(*see air-engines, &c.*)	7
Pneumatic railways — (*see railways, &c.*)	317
Pneumatic telegraphs — (*see signals, &c.*)	343
Pneumato meters — (*see meters, &c.*)	231
Pocket electro-voltaic battery —— (*see electricity, &c.*)	114
Pocket timekeepers — (*see clocks, &c.*)	73
Pointed trimming for ladies' dress —— (*see petticoats, &c.*)	269
Points and switches for railways— (*see railways, &c.*)	320
Polishing and dressing rice —— (*see thrashing, &c.*)	396
Polishing boots — (*see boots, &c.*)	33
Polishing metals —— (*see grinding, sharpening, &c.*)	172
"Pommes de mer" as used for making paper — (*see paper, &c.*)	261
Porcelain — (*see earthenware, &c.*)	112
Portable baths — (*see baths, &c.*)	26
Portable buildings or structures — (*see building, &c.*)	50
Portable cinder sifting apparatus — (*see fireplaces, &c.*)	141
Portable cooking apparatus —— (*see cooking, &c.*)	90
Portable filters — (*see filtering, &c.*)	130
Portable fire-arms — (*see fire-arms, &c.*)	134
Portable fountains — (*see watering, &c.*)	415
Portable or traction steam-engines —— (*see steam-engines*)	376
Portable railways — (*see railways, &c.*)	317
Portable self-acting water-engine for extinguishing fires — (*see fire-engines, &c.*)	139
Portable spring bedsteads and mattresses — (*see furniture, &c.*)	155
Portable water cisterns — (*see cisterns, &c.*)	72
Porte-monnaies — (*see purses, &c.*)	316
Porte-robes for holding up gown skirts — (*see petticoats, &c.*)	269
Portfolios — (*see books, &c.*)	32
Portland cement — (*see cement, &c.*)	67
Postage envelopes for letters — (*see envelopes*)	121
Postal pillars — (*see pillars, &c.*)	275
Postal stamping apparatus — (*see stamps, &c.*)	367
Posts and standards — (*see pillars, &c.*)	275
Posts or supports for telegraphic wires — (*see telegraphs, &c.*)	391
Potatoes and other vegetables,–preserving — (*see preserving food, &c.*)	290
Pots or crucibles — (*see retorts, &c.*)	326
Pots or potteryware — (*see earthenware, &c.*)	112
Potters' slip, potters' lead, &c. — (*see earthenware, &c.*)	112
Pottery kilns — (*see earthenware, &c.*)	112
Pouches or receptacles for tobacco —— (*see tobacco, &c.*)	399
Powder flasks — (*see gunpowder, &c.*)	173
Power and motion,–transmitting and applying — (*see propelling, &c.*)	300
Power-looms for weaving — (*see weaving, &c.*)	421
Power or motive-power machines —— (*see motive-power, &c.*)	235
Precipitating metals, or obtaining metals by precipitation — (*see metals*)	216
Preparations or medicines for invalids — (*see medicines, &c.*)	213
Preparing and treating hides, &c. —— (*see leather, &c.*)	203
Preparing articles of food —— (*see preserving food, &c.*)	290
Preparing coal for artificial fuel —— (*see fuel, &c.*)	148
Preparing dough and paste — (*see bread, &c.*)	41
Preparing grain for brewers —— (*see brewing, &c.*)	44
Preparing medicinal extracts —— (*see medicines, &c.*)	213
Preparing or finishing piece goods —— (*see finishing, &c.*)	131
Preparing warps for the loom — (*see weaving, &c.*)	420
Presence of vitality in the human body,–ascertaining — (*see surgery, &c.*)	389
Preservation of teeth — (*see dentistry, &c.*)	100
Preserving and hardening wood, metal, stone, skins, and other substances	288
Preserving and preparing articles of food, dressing fruit, &c.	290
Preserving fermented liquors, wine, &c. — (*see brewing, &c.*)	44
Preserving flowers — (*see feathers, &c.*)	125
Preserving the aroma of coffee and cocoa — (*see coffee, &c.*)	84
Preserving the form of articles of dress — (*see petticoats, &c.*)	269
Presser flyers — (*see spindles, &c.*)	352
Presses; compressing, packing, arranging, parcelling	291
Presses for stamping — (*see stamps, &c.*)	367
Presses for veneering — (*see wood, &c.*)	440
Pressing textile fabrics, pressing-boards — (*see finishing, &c.*)	131
Pressing the seams of garments — (*see wearing apparel, &c.*)	418
Pressure gauges — (*see gauges, &c.*)	162
Pressure of gas,–regulating —— (*see gas burners, &c.*)	161
Preventing abstraction of watches —— (*see jewellery, &c.*)	193
Preventing cables from riding — (*see ship building, &c.*)	330
Preventing decomposition in wood, metal, &c. — (*see preserving wood, &c.*)	288
Preventing disastrous effects of inundations — (*see watering, &c.*)	415
Preventing escape of gas—(*see gas-burners, &c.*)	161
Preventing explosion of steam-boilers — (*see steam-boilers, &c.*)	369
Preventing forgery and alteration in cheques — (*see cheques*)	71
Preventing harnessed horses from falling — (*see harness, &c.*)	179

	Page
Preventing incrustation in steam-boilers — (*see steam-boilers, &c.*)	374
Preventing injury by frost to water pipes — (*see watering, &c.*)	415
Preventing over-winding at coal mines — (*see mining, &c.*)	232
Preventing smoke — (*see smoke prevention, &c.*)	348
Preventing the extension of fire in buildings — (*see fire-engines, &c.*)	139
Preventing the fracture of metals from crystallization — (*see coating, &c.*)	75
Preventing waste of water from service pipes — (*see watering, &c.*)	415
Prevention of drowning — (*see swimming, &c.*)	390
Prevention of toothache — (*see medicines, &c.*)	213
Prime movers or motors — (*see motive-power, &c.*)	235
"Priming" of steam,–prevention of — (*see steam-boilers, &c.*)	369
Printed shirt fronts — (*see shirts, &c.*)	337
Printing and transferring; type and other surfaces for printing; composing and distributing type	293
Printing by electric telegraph — (*see telegraphs, &c.*)	391
Printing-colours — (*see dyes, &c.*)	111
Printing or adhering metallic dust on to fabrics — (*see cemented fabrics, &c.*)	68
Produce of mines,–obtaining — (*see mining, &c.*)	232
Producing air blasts — (*see air supplying, &c.*)	13
Producing metals and alloys — (*see metals*)	216
Producing ornamented metal surfaces — (*see metals*)	229
Producing plate glass — (*see glass, &c.*)	163
Producing raised patterns — (*see embossing, &c.*)	118
Producing sunk devices — (*see engraving, &c.*)	120
Producing voltaic electricity — (*see electricity, &c.*)	114
Products resembling shell — (*see bones, &c.*)	31
Progress of carriages,–facilitating — (*see propelling, &c.*)	299
Projectiles for fire-arms — (*see shot, &c.*)	339
Projecting cricket balls — (*see toys, &c.*)	400
Prolapsus uteri,–treatment of — (*see surgery, &c.*)	389
Propelling, driving, working; transmitting power and motion; converting movements	297
Proteaceæ — (*see plants, &c.*)	284
Protecting locks and sights of fire-arms — (*see fire-arms, &c.*)	134
Protecting ships by armour plates—(*see fortifications, &c.*)	145
Protecting silvered surfaces of looking glasses — (*see looking glasses, &c.*)	206
Protectors for Albert guards — (*see jewellery, &c.*)	193
Protractors for compasses — (*see compasses &c.*)	86
Provisions,–treating and preserving — (*see preserving food, &c.*)	290
Prussian blue — (*see dyes, &c.*)	111
Puddled steel — (*see metals*)	216
Puddling and heating furnaces — (*see furnaces, &c.*)	150
Pulley rods for curtains — (*see upholstery, &c.*)	403
Pulleys and wheels — (*see wheels for machinery, &c.*)	434
Pulmonary complaints,–prevention and cure of — (*see medicines, &c.*)	213
Pulp for paper making — (*see paper, &c.*)	261
Pulp made from wood — (*see wood, &c.*)	440
Pulverizing land — (*see ploughing, &c.*)	285
Pulverizing or crushing corn — (*see grinding corn, &c.*)	170
Pulverizing or grinding minerals— (*see grinding minerals, &c.*)	171
Pumps; pumping and raising water and other liquids; pump pistons and packings; ships' pumps; beer-engines; turbines	312
Punching and rifling — (*see boring, &c.*)	36
Purifying the atmosphere in rooms, &c. — (*see ventilation, &c.*)	410
Purifying vapours — (*see disinfecting, &c.*)	101
Purifying water for supplying steam-boilers — (*see steam-boilers, &c.*)	374
Purple dyes — (*see dyes, &c.*)	111
Purses and fastenings	316
Pyrites — (*see metals*)	216
Quartz,–crushing — (*see grinding minerals, &c.*)	171
Quays — (*see docks, &c.*)	104
Quicksilver applied as motive-power — (*see motive-power, &c.*)	243
Quilting or sewing — (*see sewing, &c.*)	328
Racket and tennis bats — (*see toys, &c.*)	400
Racks for holding cards — (*see stamps, &c.*)	367
Radial traversing carriages — (*see carriages, &c.*)	57
Rafts and boats — (*see ship building, &c.*)	330
Rags and waste; separating fibres from fabrics	316
Railings — (*see fences, &c.*)	125
Rails and rail-joints for railways — (*see railways, &c.*)	317
Railway buffers and breaks — (*see breaks, &c.*)	41
Railway propulsion — (*see propelling, &c.*)	299
Railway sheds — (*see building, &c.*)	50
Railway tickets — (*see stamps, &c.*)	367
Railways and railway carriages	317
Raised patterns,–producing — (*see embossing, &c.*)	118
Raising anchors — (*see anchors, &c.*)	21
Raising and lowering heavy bodies — (*see hoists, &c.*)	187
Raising and stacking agricultural produce — (*see thrashing, &c.*)	396
Raising and supplying water to boilers — (*see steam-boilers, &c.*)	375
Raising from mines — (*see mining, &c.*)	232
Raising or altering position of parts of machinery in motion — (*see propelling, &c.*)	300
Raising or pumping water, &c. — (*see pumps, &c.*)	312
Raising or shaping metals — (*see metals*)	223
Raising pile or nap on fabrics — (*see finishing, &c.*)	131

	Page
Raising serrated surfaces on rollers — (*see cylinders, &c.*)	96
Raising ships and vessels in dock —— (*see docks, &c.*)	104
Raising sunken ships — (*see hoists, &c.*)	187
Rakes and harrows — (*see ploughing, &c.*)	285
Rakes used in harvesting — (*see reaping, &c.*)	323
Ramming cartridges — (*see cartridges, &c.*)	60
Ranges and stoves — (*see fire-places, &c.*)	141
Ranges for rifle shooting — (*see fire-arms, &c.*)	134
Rasps and files — (*see files and rasps*)	129
Reaping, mowing, making hay	323
Reburning animal charcoal —— (*see charcoal, &c.*)	70
Receiving and securing umbrellas, canes, &c. — (*see umbrellas, &c.*)	402
Receptacles for oil and fuses — (*see boxes, &c.*)	39
Receptacles or pouches for tobacco —— (*see tobacco, &c.*)	399
Recording messages by electricity — (*see telegraphs, &c.*)	391
Recording the speed of trains — (*see measuring progress, &c.*)	212
Recovering fibres from manufactured goods— (*see fibres*)	126
Recovering ships and submerged property — (*see buoys, &c.*)	53
Rectifying — (*see distilling, &c.*)	101
Rectilinear motion,–obtaining from circular motion — (*see propelling, &c.*)	300
Red dyes — (*see dyes, &c.*)	111
Reducing friction in steam-engines — (*see steam-engines*)	376
Reducing or breaking stones — (*see grinding minerals, &c.*)	171
Reducing or smelting metals — (*see metals*)	216
Reducing straw for making paper pulp — (*see paper, &c.*)	261
Reducing the friction of slide valves — (*see valves, &c.*)	405
Reducing wood into chips or shavings — (*see cutting, &c.*)	93
Reefing sails — (*see ships' rigging, &c.*)	336
Reeling yarns, reels — (*see winding, &c.*)	435
Refining animal oils — (*see oils from seeds, &c.*)	252
Refining malt liquors — (*see brewing, &c.*)	44
Refining sugar — (*see sugar, &c.*)	387
Reflectors for lamps; reflection of light	325
Refrigerators — (*see condensing, &c.*)	87
Registering and counting work in machines, looms, &c. (*see measuring length, &c.*)	211
Registering progress of locomotives, carriages, and ships (*see measuring progress, &c.*)	212
Registering the depth and flow of liquids — (*see measuring progress, &c.*)	212
Registering the "score" for billiards — (*see billiard tables, &c.*)	29
Regulating currents in chimneys — (*see flues, &c.*)	142
Regulating draft — (*see air supplying, &c.*)	9
Regulating heat — (*see heating, &c.*)	182
Regulating speed of stationary engines and machines — (*see governors, &c.*)	166
Regulating the flow and pressure of fluids — (*see valves, &c.*)	405
Regulating the flow and pressure of gas — (*see gas-burners, &c.*)	161
Regulating water supply to steam-boilers — (*see steam-boilers, &c.*)	375
Regulators for looms — (*see weaving, &c.*)	421
Reins for preventing harnessed horses from falling — (*see harness, &c.*)	179
Reliefs or devices in relief,–producing — (*see embossing, &c.*)	118
Removing dirt and waste from spinning-frames — (*see spinning, &c.*)	359
Removing foul air from dwellings — (*see ventilation, &c.*)	410
Removing impurities contained in water — (*see filtering, &c.*)	130
Removing sediment, incrustation, and oxidation — (*see oxidation, &c.*)	257
Removing sugar from boiling-pans — (*see sugar, &c.*)	387
Removing windows for cleaning — (*see windows, &c.*)	436
Rendering buildings fire-proof — (*see building, &c.*)	50
Rendering cloths, &c. uninflammable — (*see water-proofing, &c.*)	416
Rendering pills tasteless — (*see medicines, &c.*)	213
Renovating woven fabrics — (*see finishing &c.*)	131
Repairing ships — (*see ship building, &c.*)	330
Representing atmospherical phenomena — (*see maps, &c.*)	210
Reproducing drawings — (*see copying, &c.*)	91
Resin and resinous bodies — (*see tar, &c.*)	390
Resinous distillation — (*see distilling, &c.*)	103
Restoring colour to yarns and threads — (*see dyeing, &c.*)	109
Rests for pianofortes — (*see musical instruments, &c.*)	246
Rests for rifles and small arms — (*see fire-arms, &c.*)	134
Retarding and stopping railway carriages — (*see breaks, &c.*)	42
Reticules — (*see bags, &c.*)	24
Retorts and crucibles	326
Reverberatory furnaces — (*see furnaces, &c.*)	150
Reversible carriage seats — (*see carriages, &c.*)	57
Reversible seats or chairs — (*see furniture, &c.*)	155
Reversing position of parts of machinery in motion — (*see propelling, &c.*)	300
Revivifying animal black or charcoal — (*see charcoal, &c.*)	70
Revivifying woollen cloths and fabrics — (*see finishing, &c.*)	131
Revolving fire-arms — (*see fire-arms, &c.*)	134
Revolving surfaces applicable as show cases (*see show cases, &c.*)	340
Rhea,–treating — (*see fibres*)	126
Rheumatism,–cure of — (*see medicines, &c.*)	213
Ribbon looms, ribbon weaving — (*see weaving, &c.*)	427
Ribs and stretchers for umbrellas — (*see umbrellas, &c.*)	402
Rice,–dressing and polishing —— (*see thrashing, &c.*)	396
Riddles or sieves — (*see sifting, &c.*)	342
Ridges and furrows in agriculture —— (*see ploughing, &c.*)	285

	Page
Rifles, rifle ranges, rifle cleaners —— (*see fire-arms, &c.*)	134
Rifling and punching — (*see boring, &c.*)	36
Rigging of ships, ships' rig ——— (*see ships' rigging, &c.*)	336
Ringing bells — (*see bells, &c.*)	27
Rings and hoops — (*see chains, &c.*)	69
Rinsing and blueing cloths, &c. — (*see washing, &c.*)	412
Rivets — (*see nails, &c.*)	247
Rivetting metals — (*see metals*)	223
Road-making — (*see paving, &c.*)	266
Roadways under water,–constructing — (*see excavating, &c.*)	122
Roasting coffee — (*see coffee, &c.*)	84
Roasting meat, fowls, &c. — (*see cooking, &c.*)	90
Rock,–boring or drilling — (*see mining, &c.*)	232
Rocket guns and harpoons—(*see fire-arms, &c.*)	134
Rocking-toys, rocking-horses — (*see toys, &c.*)	400
Rods for curtains — (*see upholstery, &c.*)	403
Rods for picture-frames — (*see pictures, &c.*)	273
Rods for valves — (*see valves, &c.*)	405
Roll sulphur — (*see sulphur*)	388
Roller blinds — (*see window-blinds, &c.*)	436
Roller covering — (*see coating, &c.*)	84
Rollers, cylinders, and drums — (*see cylinders, &c.*)	96
Rollers for loom temples — (*see weaving, &c.*)	429
Rollers for spinning-machines —— (*see spinning, &c.*)	359
Rolling bridges — (*see bridges, &c.*)	48
Rolling cloth and unrolling warp in looms — (*see weaving, &c.*)	429
Rolling machines or rollers used in agriculture — (*see ploughing, &c.*)	285
Rolling machines or rollers used in horticulture — (*see horticulture, &c.*)	191
Rolling metals — (*see metals*)	223
Roofing and flooring — (*see building, &c.*)	50
Roofs of coal mines,–pillars for supporting — (*see mining, &c.*)	232
Rooms or apartments,–warming — (*see heating, &c.*)	182
Ropes, cordage, twine, oakum, wire ropes	327
Ropes for submarine telegraphs —— (*see telegraphs, &c.*)	391
Rotary motion,–converting into rectilinear — (*see propelling, &c.*)	300
Rotary spading and digging machines — (*see ploughing, &c.*)	285
Rotary steam-engines — (*see steam-engines*)	376
Rotatory steam-boilers—(*see steam-boilers, &c.*)	369
Rouches — (*see hats, &c.*)	181
Rouching — (*see mangling, &c.*)	207
Roughing shoes of horses ——— (*see horse-shoes, &c.*)	190
Roving and spinning fibrous materials — (*see spinning, &c.*)	359
Rowing boats — (*see ship building, &c.*)	330
Rowlocks or thowl pins for boats, &c. — (*see ship building, &c.*)	330
Rubbers for the teeth and gums — (*see dentistry, &c.*)	100
Rudders — (*see steering, &c.*)	382
Ruffles and frills for ladies' wear — (*see petticoats, &c.*)	269
Ruffles and frills for shirts — (*see shirts, &c.*)	337
Rules for measuring — (*see measuring length, &c.*)	211
Ruling and delineating lines — (*see copying, &c.*)	91
Runners and top notches for umbrellas, &c. — (*see umbrellas, &c.*)	402
Sacking for bedsteads and couches — (*see furniture, &c.*)	155
Sacks and bags, sack holders — (*see bags, &c.*)	24
Saddles — (*see harness, &c.*)	179
"Safe" or larder —— (*see preserving food, &c.*)	290
Safes and tills — (*see locks, &c.*)	205
Safety buffer for railway trains — (*see breaks, &c.*)	42
Safety cages used in mining — (*see mining, &c.*)	232
Safety fuses — (*see matches, &c.*)	210
Safety plugs — (*see gauges, &c.*)	162
Safety sash fasteners — (*see windows, &c.*)	436
Safety valves — (*see valves, &c.*)	405
Sailing ships — (*see ship building, &c.*)	330
Sails of ships — (*see ships' rigging, &c.*)	336
Sal-ammoniac — (*see alkalies, &c.*)	18
Saline and calcareous deposits,–removing — (*see oxidation, &c.*)	257
Salt	328
Salts or alkaline salts — (*see alkalies, &c.*)	18
Salts or metallic salts — (*see metallic salts, &c.*)	215
Sanatory apparatus — (*see baths, &c.*)	26
Sand used to obtain motive-power —— (*see motive-power, &c.*)	243
Sandal slippers — (*see boots, &c.*)	33
Sanding the rails of railways — (*see railways, &c.*)	317
Sashes and windows, window sashes — (*see windows, &c.*)	436
Saving cop waste in shuttles — (*see weaving, &c.*)	428
Saving fuel — (*see smoke prevention, &c.*)	348
Saving life at sea — (*see swimming, &c.*)	390
Sawdust,–carbonizing — (*see charcoal, &c.*)	70
Sawing metal, wood, &c. — (*see cutting, &c.*)	93
Scale beams and weighing machines — (*see weighing, &c.*)	431
Scantling or laths,–cutting — (*see cutting, &c.*)	93
Scarfs and cravats — (*see shirts, &c.*)	337
Scissors — (*see knives, &c.*)	199
Scouring and washing cloths, &c. — (*see washing, &c.*)	412
Scrapers for boiler-tubes — (*see steam-boilers, &c.*)	374
Screw benches — (*see vices, &c.*)	412
Screw cocks — (*see valves, &c.*)	405
Screw fastenings for the openings of drains — (*see drains, &c.*)	105
Screw propellers — (*see propelling, &c.*)	297
Screw pulleys —— (*see wheels for machinery, &c.*)	434
Screw wrenches, screw jacks — (*see vices, &c.*)	412
Screw-button for skates — (*see buttons, &c.*)	54
Screwing leather for making boots —— (*see boots, &c.*)	33

	Page
Screws, screw blanks, stocks and dies — (*see nails, &c.*)	247
Scrubbing brushes — (*see brushes, &c.*)	49
Sculling and rowing boats — (*see ship-building, &c.*)	330
Scutching fibrous materials — (*see spinning, &c.*)	354
Scythes — (*see reaping, &c.*)	323
Sealing, seals, sealing wax — (*see stamps, &c.*)	367
Seams of garments — (*see wearing apparel, &c.*)	418
Seasoning wood, &c. —— (*see preserving wood, &c.*)	288
Seats for carriages — (*see carriages, &c.*)	57
Seats or chairs — (*see furniture, &c.*)	155
Seats or window seats — (*see windows, &c.*)	436
Sea-weeds and plants — (*see plants, &c.*)	284
Securing armour plates to ships' sides —— (*see fortifications, &c.*)	145
Securing handles of knives, forks, and daggers — (*see knives, &c.*)	199
Securing or fastening letters, &c. —— (*see stamps, &c.*)	367
Securing or fastening railway fish plates —— (*see railways, &c.*)	317
Securing scarfs to the neck — (*see shirts, &c.*)	337
Securing thowl pins to boats, &c. — (*see ship building, &c.*)	330
Securing tires on carriage wheels — (*see wheels for carriages, &c.*)	431
Securing umbrellas, canes, &c. — (*see umbrellas, &c.*)	402
Securing watches — (*see jewellery, &c.*)	193
Sediment and incrustation,–removing — (*see oxidation, &c.*)	257
Seeds, corn and other grain,–hulling and thrashing — (*see thrashing, &c.*)	396
Self-acting lubricator — (*see oiling, &c.*)	250
Self-acting mules for spinning — (*see spinning, &c.*)	359
Self-acting railway breaks — (*see breaks, &c.*)	42
Self-acting signals — (*see signals, &c.*)	343
Self acting sockets for taps — (*see valves, &c.*)	405
Self-acting temples for looms —— (*see weaving, &c.*)	429
Self-acting window fasteners — (*see windows, &c.*)	436
Self-feeding inkstands — (*see inks, &c.*)	192
Self-inking stamps — (*see stamps, &c.*)	367
Self-registering thermometers — (*see thermometers, &c.*)	395
Self-supplying water brushes and brooms — (*see brushes, &c.*)	49
Semeiosis of health, disease and death — (*see surgery, &c.*)	389
Separating impurities from water —— (*see filtering, &c.*)	130
Separating, sifting, and sorting — (*see sifting, &c.*)	342
Separating waste and foreign matters from fibres — (*see fibres*)	126
Service pipes, water service — (*see watering, &c.*)	415
Setting printers' types — (*see printing, &c.*)	293
Setting teeth in drums or cylinders — (*see cylinders, &c.*)	96
Setting watch hands — (*see clocks, &c.*)	73
Sewage,–treating — (*see manure, &c.*)	208
Sewers — (*see drains, &c.*)	105
Sewing and embroidering	328
Shades and glasses for lamps — (*see lamps, &c.*)	201
Shafts and bearings — (*see axles, &c.*)	21
Shampooing,–apparatus to be used in — (*see baths, &c.*)	26
Shaping and cutting metal, wood, &c. — (*see cutting, &c.*)	93
Shaping and dressing stone — (*see stone, &c.*)	384
Shaping or cutting soap — (*see soap*)	351
Shaping the tops or uppers of boots — (*see boots, &c.*)	33
Shaving and dressing leather, skins, &c. — (*see leather, &c.*)	203
Shaving brushes — (*see brushes, &c.*)	49
Shawls and mantles — (*see petticoats, &c.*)	269
Shear steel — (*see metals*)	216
Shearing cloths, hat tufts, &c.—— (*see finishing, &c.*)	131
Shears and scissors — (*see knives, &c.*)	199
Sheathing or coating ships—— (*see coating, &c.*)	81
Sheaths for swords — (*see bayonets, &c.*)	26
Sheaves of corn, &c.–gathering and binding — (*see reaping, &c.*)	323
Sheds and tents — (*see building, &c.*)	50
Sheets and plates of metal — (*see metals*)	216
Sheets used in packing goods — (*see presses, &c.*)	291
Shell,–artificial — (*see bones, &c.*)	31
Shell, shot, and other projectiles —— (*see shot, &c.*)	339
Shelling or hulling grain and seeds —— (*see thrashing, &c.*)	396
Ship and boat building, sheathing, repairing, working, loading and unloading; masts, spars, &c.	330
Ship propulsion — (*see propelling, &c.*)	297
Ships,–ventilating — (*see ventilation, &c.*)	410
Ships' anchors, anchoring ships —— (*see anchors, &c.*)	21
Ships' boats (lowering and disengaging)	336
Ships' compasses — (*see compasses, &c.*)	86
Ships' logs and sounders —— (*see measuring progress, &c.*)	212
Ships' pumps — (*see pumps, &c.*)	312
Ships' rigging and sails; reefing and furling sails; lowering masts; ships' rig	336
Ships' rudders — (*see steering, &c.*)	382
Shirts, collars, wristbands, neckties, cravats, scarfs	337
Shoes and boots — (*see boots, &c.*)	33
Shoes for horses; shoeing horses — (*see horse-shoes, &c.*)	190
"Shoring up" in dock making — (*see docks, &c.*)	104
Shot, shell, bullets, and other projectiles	339
Shot used to obtain motive-power —— (*see motive-power, &c.*)	243
Shovels — (*see hammers, &c.*)	179
Show cases and boxes; show boards or tablets, shop fronts, street plates, name plates, letters	340

	Page
Shutters and window frames — (*see windows, &c.*)	436
Shutting off steam — (*see governors, &c.*)	166
Shuttles for weaving — (*see weaving, &c.*)	428
Side pulleys — (*see wheels for machinery, &c.*)	434
Sieves or riddles — (*see sifting, &c.*)	342
Sifting, sorting, separating	342
Sights for fire-arms — (*see fire-arms, &c.*)	134
Signals, alarms, communicating-apparatus, pneumatic telegraphs	343
Signals used for rifle practice — (*see fire-arms, &c.*)	134
Silex and silicious matters,–separating from steel — (*see metals*)	216
Siliceous compounds with metallic substances — (*see metallic salts, &c.*)	215
Siliceous stoneware — (*see stone, &c.*)	384
Silicic acid — (*see acids, &c.*)	4
Silk fabrics for making hats — (*see hats, &c.*)	181
Silk spinning and throwing — (*see spinning, &c.*)	359
Silver — (*see metals*)	216
Silvering glass — (*see coating, &c.*)	79
Silvering paper — (*see paper, &c.*)	265
Silvering surfaces of woven fabrics — (*see cemented fabrics, &c.*)	68
"Simoon" for drying cane trash — (*see sugar, &c.*)	387
Singeing pigs	347
Singeing woven fabrics — (*see finishing, &c.*)	131
Single breech-loading guns—(*see fire-arms, &c.*)	134
Single thread sewing machines — (*see sewing, &c.*)	328
Sink traps — (*see drains, &c.*)	105
Sinking open coffers — (*see docks, &c.*)	104
Sizing or separating into sizes — (*see sifting, &c.*)	342
Sizing or stiffening paper — (*see paper, &c.*)	261
Sizing or stiffening woven fabrics—(*see finishing, &c.*)	131
Sizing, warping, beaming, and preparing yarns for weaving	347
Skates — (*see boots, &c.*)	33
Skeleton petticoats — (*see petticoats, &c.*)	269
Skewers for shuttles — (*see weaving, &c.*)	428
Skewers for winding-engines — (*see winding, &c.*)	435
Skids and buffers — (*see breaks, &c.*)	41
Skins and hides — (*see leather, &c.*)	203
"Skipping dipper" for removing sugar from boiling pans — (*see sugar, &c.*)	387
Skirts and skirt supporters — (*see petticoats, &c.*)	269
Slabs and columns — (*see pillars, &c.*)	275
Slabs or building blocks — (*see bricks, &c.*)	45
Slate and stone — (*see stone, &c.*)	384
Sleepers and chairs for railways — (*see railways, &c.*)	317
Slicing or planing wood — *see cutting, &c.*)	93
Slide valves — (*see valves, &c.*)	405
Slides for photographs — (*see photography, &c.*)	272
Sliding window sashes — (*see windows, &c.*)	436
Slings or straps for wallets, &c.—(*see belts, &c.*)	28
Slip of locomotive driving wheels,–preventing — (*see propelling, &c.*)	299
Slippers — (*see boots, &c.*)	33
Slubbing and roving frames — (*see spinning, &c.*)	359
Sludge pumps — (*see pumps, &c.*)	312
Smallware and ribbon looms — (*see weaving, &c.*)	427
Smelting metals — (*see metals*)	216
Smoke prevention; burning and condensing smoke; saving fuel	348
Smoking-pipes and cigar tubes — (*see tobacco, &c.*)	399
Snuff and snuff boxes — (*see tobacco, &c.*)	399
Soap	351
Sociables — (*see carriages, &c.*)	57
Sockets for taps — (*see valves, &c.*)	405
Soda — (*see alkalies, &c.*)	18
Sofa bedsteads — (*see furniture, &c.*)	155
Softening fibres preparatory to spinning — (*see spinning, &c.*)	354
Softening water — (*see filtering, &c.*)	130
Soil pipes — (*see water-closets, &c.*)	414
Solar timekeepers — (*see clocks, &c.*)	73
Soles for boots and shoes — (*see boots, &c.*)	33
Soluble alkaline silicates — (*see alkalies, &c.*)	18
Sooty exhalations,–preventing descent of — (*see smoke prevention, &c.*)	348
Sorting and sifting — (*see sifting, &c.*)	342
Sound signals, sounding bell signals — (*see signals, &c.*)	343
Sounders or logs—(*see measuring progress, &c.*)	212
Sounding bells on lighthouses — (*see signals, &c.*)	343
Sounding the holds of ships — (*see measuring progress, &c.*)	212
Sous-juppes for distending dress — (*see petticoats, &c.*)	269
Sowing seeds and distributing manure; treating growing crops	351
Spacing and setting printers' type—(*see printing, &c.*)	293
Spades and picks — (*see hammers, &c.*)	179
Spading and digging machines — (*see ploughing, &c.*)	285
Spanish grass — (*see fibres*)	126
Spanners or screw wrenches — (*see vices, &c.*)	412
Speaking tubes — (*see signals, &c.*)	343
Specific gravity — (*see weighing, &c.*)	431
Spectacles — (*see optical instruments, &c.*)	255
Spectrum cameras — (*see optical instruments, &c.*)	255
Specula used in surgery — (*see surgery, &c.*)	389
Spelter — (*see metals*)	216
Spikes and nails — (*see nails, &c.*)	247
Spiles and bungs — (*see cork, &c.*)	92
Spills and pipe lights — (*see matches, &c.*)	210
Spindles and knobs for locks — (*see locks, &c.*)	205
Spindles; spindles and flyers	352
Spinning and preparing for spinning	354
Spinning ropes — (*see ropes, &c.*)	327
Spinning toys — (*see toys, &c.*)	400
Spiral fluted nails — (*see nails, &c.*)	247
Spiral propellers — (*see propelling, &c.*)	297
Spiral springs — (*see springs*)	365
Spirit with properties of acetone — (*see extracts, &c.*)	122
Spirituous liquors — (*see distilling, &c.*)	101

	Page
Splints for matches — (*see matches, &c.*)	210
Splitting leather and cloths —— (*see cutting, &c.*)	95
Sponge (substitute for)	365
Spoons — (*see knives, &c.*)	199
Sporran or excursion bag — (*see bags, &c.*)	24
Spring balances or weighing machines — (*see weighing, &c.*)	431
Spring hinges — (*see joining, &c.*)	195
Spring mattresses — (*see upholstery, &c.*)	403
Spring stretchers or bedsteads — (*see furniture, &c.*)	155
Spring window supporters—(*see windows, &c.*)	436
Springs	365
Stable floors	367
Stacking corn and other crops —— (*see thrashing, &c.*)	396
Stadium or telemeter — (*see compasses, &c.*)	86
Stage dresses — (*see wearing-apparel, &c.*)	418
Stage scenery and apparatus — (*see pictures, &c.*)	273
Stair carpeting — (*see upholstery, &c.*)	403
Stairs and staircases — (*see building, &c.*)	50
Stamps and dampers; tickets; stamping, marking, and sealing; sealing wax	367
Stand for clock dials — (*see clocks, &c.*)	73
Standards and posts — (*see pillars, &c.*)	275
Stands for exhibiting drapery — (*see show-cases, &c.*)	340
Stands for music —— (*see musical instruments, &c.*)	246
Stands for umbrellas — (*see umbrellas, &c.*)	402
Starch, size, gum, glue and gelatine	368
Starting, stopping and reversing stationary machinery — (*see governors, &c.*)	166
Static testing arrangement —— (*see testing apparatus*)	394
Stationary steam-engines —— (*see steam-engines*)	376
Statuary — (*see pillars, &c.*)	275
Stays and corsets — (*see petticoats, &c.*)	269
Steam and other boilers; cleansing and preventing incrustation of boilers; water-feeding apparatus for boilers	369
Steam cultivation — (*see ploughing, &c.*)	285
Steam cylinders — (*see cylinders, &c.*)	96
Steam-engines (stationary, locomotive, and marine)	376
Steam fire-engines — (*see fire-engines, &c.*)	139
Steam-gauge — (*see gauges, &c.*)	162
Steam generators — (*see steam-boilers, &c.*)	369
Steam pumps — (*see pumps, &c.*)	312
Steam ships — (*see ship building, &c.*)	330
Steam traps used with steam-engines — (*see steam-engines*)	376
Stearine, stearine candles — (*see candles, &c.*)	56
Steatite smelting pots — (*see metals*)	216
Steel and steelifying iron — (*see metals*)	216
Steel busks or stay fasteners — (*see petticoats, &c.*)	269
Steel buttons — (*see buttons, &c.*)	54
Steel dust,-printing fabrics with —— (*see cemented fabrics, &c.*)	68
Steel-yards — (*see weighing, &c.*)	431
Steering or guiding ships, carriages, ploughs, &c.	382
Stench-traps — (*see drains, &c.*)	105
Steps and stairs — (*see building, &c.*)	50
Stereotyping, stereotype plates —— (*see printing, &c.*)	293
Sterns of ships — (*see ship building, &c.*)	330
Sticks and canes used in walking —— (*see umbrellas, &c.*)	402
Stiffening woven fabrics — (*see finishing, &c.*)	131
Stiffening yarns for weaving — (*see sizing, &c.*)	347
Stiletto handles — (*see bayonets, &c.*)	26
Stirrups — (*see harness, &c.*)	179
Stitching or sewing machines — (*see sewing, &c.*)	328
Stock for brooms — (*see brushes, &c.*)	49
Stocking-frames — (*see weaving, &c.*)	425
Stone and slate, artificial stone; grindstones and millstones; sand, lava	384
Stones used in lithography — (*see printing, &c.*)	293
Stoneware cross sleepers for railways — (*see railways, &c.*)	317
Stools for the feet — (*see furniture, &c.*)	155
Stop cocks and taps — (*see valves, &c.*)	405
Stop-motion in looms — (*see weaving, &c.*)	429
Stoppering and stoppers for bottles — (*see bottles, &c.*)	38
Stoppers for chain cables — (*see chains, &c.*)	69
Stopping and reversing stationary machines — (*see governors, &c.*)	166
Stopping or plugging teeth —— (*see dentistry, &c.*)	100
Stopping, plugging or closing inkstands, bottles, &c. — (*see inks, &c.*)	192
Stopping railway carriages — (*see breaks, &c.*)	42
Stopping runaway horses — (*see harness, &c.*)	179
Storing beer — (*see brewing, &c.*)	44
Storing grain — (*see thrashing, &c.*)	396
Stoves and fire-places — (*see fire-places, &c.*)	141
Stowing and reefing sails — (*see ships' rigging, &c.*)	336
Straight work in agriculture — (*see ploughing, &c.*)	285
Straining clay for making bricks — (*see bricks, &c.*)	45
Straining pillars for wire fencing — (*see wire working, &c.*)	438
Straps, driving bands, and belts	386
Straw,hay, &c.,-stacking— (*see thrashing, &c.*)	396
Street plates and name plates — (*see show cases, &c.*)	340
Street railways — (*see railways, &c.*)	317
Strength of liquids,-testing —— (*see testing apparatus*)	394
Stretchers and ribs for umbrellas — (*see umbrellas, &c.*)	402
Stretching and drying — (*see drying, &c.*)	107
Stretching-rollers or temples for looms — (*see weaving, &c.*)	429
Striking bells — (*see bells, &c.*)	27
Striking or lowering ships' masts — (*see ships' rigging, &c.*)	336
String boards of stairs — (*see building, &c.*)	50
Strippers for carding engines — (*see spinning, &c.*)	356
Studs and buttons — (*see buttons, &c.*)	54
Stuffing cushions, &c. — (*see upholstery, &c.*)	403

	Page
Submarine telegraphic cables — (*see telegraphs, &c.*)	391
Submarine works — (*see docks, &c.*)	104
Submerging telegraphic cables —— (*see telegraphs, &c.*)	391
Sub or oxi-sulphate of lead — (*see metallic salts, &c.*)	215
Substances for waterproofing — (*see waterproofing, &c.*)	416
Substitutes for charcoal — (*see charcoal, &c.*)	70
Substitutes for horn, whalebone, ivory, coral &c. — (*see bones, &c.*)	31
Substitutes for metals — (*see metals*)	216
Substitutes for sponge — (*see sponge*)	365
Substitutes for type — (*see printing, &c.*)	293
Succouring persons interred before life is extinct — (*see coffins, &c.*)	85
Sugar and syrups	387
Sulphate of alumina — (*see alkalies, &c.*)	18
Sulphates of metals — (*see metallic salts, &c.*)	215
Sulphur	388
Sulphuric acid, sulphurous acid — (*see acids, &c.*)	4
Sulphuring vines —— (*see destroying insects, &c.*)	101
Sun blinds or shades —— (*see window-blinds, &c.*)	436
Sunken ships,–raising — (*see hoists, &c.*)	187
Superheating steam — (*see steam-boilers, &c.*)	369
Supplying air for ventilation — (*see ventilation, &c.*)	410
Supplying furnaces with fuel — (*see furnaces, &c.*)	150
Supplying houses with water — (*see watering, &c.*)	415
Supplying liquid nourishment to animals — (*see food for cattle, &c.*)	144
Supplying water to steam-boilers — (*see steam-boilers, &c.*)	375
Supplying water to water-closets — (*see water-closets, &c.*)	414
Supplying water to waterwheels — (*see water-wheels, &c.*)	417
Support of bridge roadways —— (*see bridges, &c.*)	48
Supporting and raising ships ——— (*see ship building, &c.*)	330
Supporting buildings — (*see building, &c.*)	50
Supporting lighthouse platforms — (*see buoys, &c.*)	53
Supporting ships in dock, supporting piers, &c. — (*see docks, &c.*)	104
Supporting steam-engines — (*see steam-engines*)	376
Supporting the roof of coal mines —— (*see mining, &c.*)	232
Supporting the womb in prolapsus uteri — (*see surgery, &c.*)	389
Surface condensers — (*see condensing, &c.*)	87
Surfaces for printing — (*see printing, &c.*)	293
Surfaces of woven fabrics,–treating —— (*see finishing, &c.*)	131
Surgery, surgical intruments, trusses for hernia; invalid furniture and carriages; facilitating hearing	389
Surplus momentum of railway trains,–utilizing — (*see propelling, &c.*)	299
Surveying — (*see compasses, &c.*)	86
Suspenders for ladies' dress — (*see petticoats, &c.*)	269
Suspending and turning meat in roasting — (*see cooking, &c.*)	90
Suspending curtains — (*see upholstery, &c.*)	403
Suspending drapery in shop windows —— (*see show cases, &c.*)	340
Suspending electric telegraph wires — (*see telegraphs, &c.*)	391
Suspending pictures — (*see pictures, &c.*)	273
Suspension bridges — (*see bridges, &c.*)	48
Sweetening and purifying wheat, &c. — (*see thrashing, &c.*)	396
"Swifts" used in winding — (*see winding, &c.*)	435
Swimming, prevention of drowning, swimming belts and apparatus	390
Swing doors — (*see doors, &c.*)	104
Switches and points for railways — (*see railways, &c.*)	320
Swivel bolsters for bearings — (*see axles, &c.*)	21
Swivels and keys — (*see jewellery, &c.*)	193
Swords and sheaths — (*see bayonets, &c.*)	26
Syphons, pipes and tubes — (*see pipes, &c.*)	278
Syrups and saccharine solutions — (*see sugar, &c.*)	387
Table mats — (*see oil cloths, &c.*)	250
Tables for playing billiards — (*see billiard tables, &c.*)	29
Tables, table expanders — (*see furniture, &c.*)	155
Tablets and finger plates for doors — (*see doors, &c.*)	104
Tablets and show boards — (*see show cases, &c.*)	340
Tailings of metallic ores — (*see metals*)	216
Taking observations at sea or on land — (*see compasses, &c.*)	86
Taking off sheets in printing machines — (*see printing, &c.*)	293
Taking photographs — (*see photography, &c.*)	272
Taking soundings — (*see measuring progress, &c.*)	212
Taking-up motion in looms — (*see weaving, &c.*)	429
Tallow candles — (*see candles, &c.*)	56
Tanks for dairy use — (*see churns, &c.*)	72
Tanks for holding water — (*see cisterns, &c.*)	72
Tanning hides and skins — (*see leather, &c.*)	203
Tape legs — (*see weaving, &c.*)	420
Taper spiral springs — (*see springs*)	365
Taper tubes — (*see pipes, &c.*)	278
Tapes and cords — (*see weaving, &c.*)	427
Tapestry and other weavings — (*see weaving, &c.*)	421
Tapestry or needlework — (*see sewing, &c.*)	328
Taps and stop-cocks — (*see valves, &c.*)	405
Tar, pitch, resin, creosote, chapapote	390
Targets — (*see fire-arms, &c.*)	134
Tarpauling — (*see oil cloths, &c.*)	250
Tea, tea fountains — (*see coffee, &c.*)	84
Teazles or thistles — (*see plants, &c.*)	284
Teazling cloths — (*see finishing, &c.*)	131
Teeth and palates, artificial teeth —— (*see dentistry, &c.*)	100

	Page
"Telegraph copying press"—(*see copying, &c.*)	91
Telegraphs (electric); telegraphic printing apparatus	391
Telemeters for use of surveyors—(*see compasses, &c.*)	86
Telescopes—(*see optical instruments, &c.*)	255
Tempering and annealing metals——(*see metals*)	216
Tempering swords, bayonets, &c.—(*see bayonets, &c.*)	26
Temples for looms—(*see weaving, &c.*)	429
Tennis and racket bats—(*see toys, &c.*)	400
Tenoning and mortising machines——(*see cutting, &c.*)	93
Tentering woven fabrics—(*see drying, &c.*)	107
Tents—(*see building, &c.*)	50
Terne-plates—(*see metals*)	229
Terra-cotta casts—(*see earthenware, &c.*)	112
Terry and pile fabrics,-weaving——(*see weaving, &c.*)	421
Tessellated pavements—(*see paving, &c.*)	266
Testing apparatus	394
Textile fabrics—(*see fabrics, &c.*)	123
Textile fabrics,-finishing—(*see finishing, &c.*)	131
Textile fabrics,-weaving—(*see weaving, &c.*)	421
Thermometers, barometers, hygrometers	395
Thermometrical fire-alarm and extinguisher—(*see fire-engines, &c.*)	139
Thimbles or ships' thimbles—(*see ships' rigging, &c.*)	336
Thistles or teazles—(*see plants, &c.*)	284
Thowl pins or rowlocks for boats, &c.—(*see ship building, &c.*)	330
Thrashing, winnowing, hulling, dressing, cleansing, drying, storing, and preserving corn, grain, seeds, and rice; granaries	396
Thread or yarn printing—(*see printing, &c.*)	293
Thread protecting clew box—(*see boxes, &c.*)	39
Threads and yarns	398
"Throstles" used in spinning—(*see spinning, &c.*)	359
Tickets—(*see stamps, &c.*)	367
Tightners for the cords of curtains—(*see upholstery, &c.*)	403
Tiles and bricks—(*see bricks, &c.*)	45
Tiles and drain pipes—(*see drains, &c.*)	105
Tilling or cultivating land—(*see ploughing, &c.*)	285
Tills and safes—(*see locks, &c.*)	205
Tilting casks—(*see casks, &c.*)	61
Timber,-sawing—(*see cutting, &c.*)	93
Timbers,-hardening and seasoning—(*see preserving wood, &c.*)	288
Timbers of ships—(*see ship building, &c.*)	330
Timekeepers—(*see clocks, &c.*)	73
Tin—(*see metals*)	223
Tinning—(*see coating, &c.*)	75
Tire for carriage wheels—(*see wheels for carriages, &c.*)	431
Titanic pig metal—(*see metals*)	216
Tobacco and snuff; cigars, cigar-holders, pipe and cigar lighters; smoking-pipes, tobacco and snuff boxes; tobacco pouches	399
Toe plates and shoe heels—(*see boots, &c.*)	33
Tonics—(*see medicines, &c.*)	213
Tools for cutting metal, wood, &c.—(*see cutting, &c.*)	93
Tools or apparatus for cleaning windows—(*see windows, &c.*)	436
Toothache,-cure of—(*see dentistry, &c.*)	100
Tooth-plates—(*see dentistry, &c.*)	100
Toothed wheels and pinions—(*see wheels for machinery, &c.*)	434
Top notches for umbrellas, &c.——(*see umbrellas, &c.*)	402
Top rollers for spinning-machines——(*see spinning, &c.*)	359
"Topped up" cordage, &c.—(*see ropes, &c.*)	327
Torrefying or heating—(*see heating, &c.*)	182
Tortoiseshell—(*see bones, &c.*)	31
Tourists' bags—(*see bags, &c.*)	24
Towing vessels on rivers, &c.—(*see propelling, &c.*)	297
Toys, games, and exercises	400
Tracing and copying—(*see copying, &c.*)	91
Traction engines, tractomotives—(*see steam-engines*)	376
Trade marks—(*see show cases, &c.*)	340
Tramways—(*see railways, &c.*)	317
Transferring, transferring surfaces——(*see printing, &c.*)	293
Transmitting power and motion—(*see propelling, &c.*)	300
Transmitting signals—(*see signals, &c.*)	343
Transportable machine for rifling cannon—(*see fire-arms, &c.*)	134
Trap for cellars—(*see building, &c.*)	50
Traps for steam—(*see steam-engines*)	376
Travelling anchor—(*see anchors, &c.*)	21
Travelling bags and cases—(*see boxes, &c.*)	39
Travelling wheels or carriage wheels——(*see wheels for carriages, &c.*)	431
Traversers and guides for machinery—(*see propelling, &c.*)	300
Traversing-apparatus for railways—(*see railways, &c.*)	320
Trays and baths for photographic purposes—(*see photography, &c.*)	272
Trays, dinner plates, cups	401
Trays for pens—(*see pens, &c.*)	268
Treadle power looms—(*see weaving, &c.*)	421
Treating beer and wine—(*see brewing, &c.*)	44
Treating coal—(*see fuel, &c.*)	148
Treating cream or milk——(*see preserving food, &c.*)	290
Treating growing crops—(*see sowing, &c.*)	351
Treating sewage—(*see manure, &c.*)	208
Treating the tobacco plant—(*see tobacco, &c.*)	399
Treating timber to preserve the same—(*see preserving wood, &c.*)	288
Treatment of clays—(*see bricks, &c.*)	45
Treatment of milk for making butter—(*see churns, &c.*)	72
Treatment of plants, sea-weeds, &c.——(*see plants, &c.*)	284
Treatment or finishing of woven fabrics—(*see finishing, &c.*)	131
Treenails for railways—(*see railways, &c.*)	317
Trigger plates of rifles—(*see fire-arms, &c.*)	134
Trimming sugar loaves—(*see sugar, &c.*)	387

	Page
Trimming the edge of slate — (*see stone, &c.*)	384
Trimmings for gentlemen's wearing-apparel (*see wearing-apparel, &c.*)	418
Trimmings for ladies' dress — (*see petticoats, &c.*)	269
Trimmings for upholstery — (*see upholstery, &c.*)	403
Trinitronapthalina,–colours derived from — (*see dyes, &c.*)	111
Trough for kneading — (*see bread, &c.*)	41
Trousers and waistcoats —— (*see wearing-apparel, &c.*)	418
Trucks — (*see carriages, &c.*)	57
Trumpets — (*see musical instruments, &c.*)	246
Trunks — (*see boxes, &c.*)	39
Trusses and bandages for hernia — (*see surgery, &c.*)	389
Tubes for cigars — (*see tobacco, &c.*)	399
Tubes or speaking tubes — (*see signals, &c.*)	343
Tubes, pipes, and syphons — (*see pipes, &c.*)	278
Tubs and buckets — (*see casks, &c.*)	61
Tubular steam boilers——(*see steam boilers, &c.*)	369
Tunnelling — (*see excavating, &c.*)	122
Tunning casks — (*see casks, &c.*)	61
Turf or peat — (*see peat*)	267
Turkish baths — (*see baths, &c.*)	26
Turning and guiding ploughs, &c. —— (*see steering, &c.*)	382
Turning; lathes for turning	401
Turning meat in roasting — (*see cooking, &c.*)	90
Turning over cartridges —(*see cartridges, &c.*)	60
Turning over leaves or sheets of music — (*see musical instruments, &c.*)	246
Turning shafts — (*see axles, &c.*)	21
Turning up or digging land — (*see ploughing, &c.*)	285
Turnstiles for cabs, &c. — (*see measuring progress, &c.*)	212
Turntables for railways — (*see railways, &c.*)	320
Tuyeres — (*see air supplying, &c.*)	9
Twine and cordage — (*see ropes, &c.*)	327
Twist lace machines — (*see weaving, &c.*)	421
Twisting and laying cords and ropes — (*see ropes, &c.*)	327
Twisting and spinning fibrous substances — (*see spinning, &c.*)	359
Twisting nails — (*see nails, &c.*)	247
Type printing, types — (*see printing, &c.*)	293
Umbrellas, parasols, umbrella furniture and covers, umbrella stands; walking sticks	402
Undercovers for carding-engines —— (*see spinning, &c.*)	356
Unhairing leather — (*see leather, &c.*)	203
Unhooking in jacquard machines —— (*see weaving, &c.*)	421
Uniting boot and shoe soles — (*see boots, &c.*)	33
Uniting or stitching leather, &c. — (*see sewing, &c.*)	328
Uniting telegraph wires — (*see telegraphs, &c.*)	391
Unloading ships —(*see ship-building, &c.*)	330
Unrolling warp in looms — (*see weaving, &c.*)	429
Upholstery (mattresses, beds, cushions, curtains); mats and matting; hassocks	403
Upright pulleys — (*see wheels for machinery, &c.*)	434
Urinals — (*see waterclosets, &c.*)	414
Urns for tea and coffee — (*see coffee, &c.*)	84
Utilizing surplus momentum of railway trains, &c. — (*see propelling, &c.*)	299
Valenciennes lace — (*see weaving, &c.*)	425
Valves, taps, stop-cocks, plugs; regulating the flow and pressure of fluids	405
Vapours for purifying — (*see disinfecting, &c.*)	101
Varnishing, varnishes — (*see painting, &c.*)	258
Varying and reproducing drawings —— (*see copying, &c.*)	91
Varying position of parts of machinery in motion — (*see propelling, &c.*)	300
Varying speed of movements in machinery — (*see propelling, &c.*)	300
Vases	409
Vats — (*see casks, &c.*)	61
Vegetable charcoal — (*see charcoal, &c.*)	70
Vegetable fibres — (*see fibres*)	126
Vegetable food,–preserving — (*see preserving food, &c.*)	290
Vegetable parchment — (*see paper, &c.*)	261
Vehicles for paints — (*see painting, &c.*)	258
Vehicles or carriages — (*see carriages, &c.*)	57
Velocipedes — (*see carriages, &c.*)	57
Velvets, velveteens,–dyeing — (*see dyeing, &c.*)	109
Velvets, velveteens,–weaving — (*see weaving, &c.*)	421
Veneering, veneers — (*see wood, &c.*)	440
Venetian-blinds — (*see window-blinds, &c.*)	436
Venetian enamels — (*see enamelling, &c.*)	119
Ventilation; supplying and purifying air for buildings, mines, ships, carriages, &c.	410
Vents, vent traps — (*see valves, &c.*)	405
Vermicelli — (*see bread. &c.*)	41
Vessel for administering medicines —— (*see medicines, &c.*)	213
Vessels for dairy use — (*see churns, &c.*)	72
Vessels for holding oils — (*see oils from seeds, &c.*)	252
Vessels for holding tea, coffee, &c. —— (*see coffee, &c.*)	84
Vessels of glass — (*see bottles, &c.*)	38
Vessels or chambers containing steam — (*see steam-boilers, &c.*)	369
Vessels or ships — (*see ship-building, &c.*)	330
Vests or waistcoats —— (*see wearing apparel, &c.*)	418
Viaducts — (*see bridges, &c.*)	48
Vices, spanners, screw-wrenches, screw jacks	412
Victorines and boas — (*see petticoats, &c.*)	269
Views for magic lanterns — (*see optical instruments, &c.*)	255
Vinegar — (*see acids, &c.*)	4
Vineries and vines — (*see horticulture, &c.*)	191
Viscous or glutinous substances — (*see starch, &c.*)	368
Vitality in the human body,–ascertaining degree of — (*see surgery, &c.*)	389
Volcanic substances, lava, &c. —— (*see stone, &c.*)	384
Voltaic baths — (*see baths, &c.*)	26
Voltaic electricity — (*see electricity, &c.*)	114

SYNOPSIS.

Page

ACCIDENTS (*Prevention of*) - - - - - - - - - 1

ACIDS AND VINEGAR - - - - - - - - - - 4

ADVERTISING - - - - - - - - - - - 6

AËRATING; AËRATED LIQUIDS; GAZOGENE - - - - - - 6

AËRIAL MACHINES, FLYING ENGINES, BALLOONS - - - - - - 7

AIR, GAS, AND WIND ENGINES AND MILLS; PNEUMATIC MOTIVE-POWER - 7

AIR SUPPLYING, BLOWING, AND EXHAUSTING; DRAFT AND VENTILATION - 9

I.—Supplying Air to Furnaces, Stoves, Lamps, &c.; Increasing and Regulating Draft; Tuyeres; Dampers; Chimney Wind Guards; Heating Blast - - - - - - - - - 9

II.—Supplying Air in Reaping, Mowing, Grinding, Thrashing and Cleansing Machines - - - - - - - - - 12

III.—Admitting, Forcing and Exhausting Air for Manufacturing and other Purposes; Air-pumps, Bellows, Fans and other Blowers; Forcing Gas through melted Metal, &c. - - - - - - - - 13

IV.—Ventilation; Supplying and Purifying Air for Buildings, Mines, Ships, Carriages, &c. - - - - - - - - 16

ALKALIES; ALKALINE AND EARTHY SALTS; MICA; IODINE; SALTS OF ALUMINA - - - - - - - - - - - - 18

ANCHORS; WORKING ANCHORS - - - - - - - - 21

AXLES, SHAFTS, BEARINGS, JOURNALS, AXLE-BOXES, PACKINGS FOR AXLES; LUBRICATING AXLES, &c. - - - - - - - - - 21

BAGS, SACKS, BASKETS AND FASTENINGS; NOSE-BAGS - - - - - 24

BANNERS AND FLAGS - - - - - - - - - - 26

BATHS AND BASINS - - - - - - - - - - 26

BAYONETS, SWORDS AND DAGGERS; ALSO SHEATHS AND HANDLES - - 26

BELLS; RINGING BELLS - - - - - - - - - 27

BELTS, BANDS, BRACES, GARTERS - - - - - - - - 28

Page

BILLIARD TABLES AND MARKERS, BAGATELLE BOARDS - - - - 29

BIRD CAGES - - - - - - - - - - - 29

BLEACHING AND DECOLOURISING - - - - - - - 29

BOBBINS AND COP-TUBES - - - - - - - - - 31

BONES; ARTIFICIAL BONE, IVORY, HORN, WHALEBONE, SHELL AND CORAL 31

BOOKS, ALBUMS, PORTFOLIOS, BOOK COVERS, BOOK BINDING AND ORNAMENTING - - - - - - - - - - - 32

BOOTS, SHOES, LEGGINGS, CLOGS, SKATES; CLEANING BOOTS; BLACKING; LASTS - - - - - - - - - - - - 33

BORING, DRILLING, RIFLING AND PUNCHING; GIMLETS, AUGERS AND BRACE-BITS - - - - - - - - - - - 36

BOTTLES AND JARS; STOPPERS, CAPSULES AND CORKS; STOPPERING, CLOSING AND OPENING BOTTLES AND JARS - - - - - - 38

BOXES, TRAVELLING-CASES, CANISTERS, CANTEENS; WORK-BOXES, DRESSING-CASES - - - - - - - - - - - 39

BREAD, BISCUITS, AND VERMICELLI; KNEADING MACHINES; BAKERS' OVENS - - - - - - - - - - - - 41

BREAKS, SKIDS AND BUFFERS FOR CARRIAGES AND RAILWAYS - - 42

BREWING, FERMENTING, MANUFACTURING AND TREATING BEER, WINE, &C.; YEAST; TREATING MALT AND HOPS - - - - - - - 44

BRICKS, TILES AND BUILDING BLOCKS - - - - - - - 45

BRIDGES AND VIADUCTS - - - - - - - - - 48

BRUSHES AND BROOMS - - - - - - - - - 49

BUILDING, PLASTERING, FLOORING AND ROOFING; BEAMS AND GIRDERS; WALLS AND CEILINGS; TENTS - - - - - - - - - 50

BUOYS AND LIGHT-HOUSES - - - - - - - - - 53

BUTTONS, BUCKLES, HOOKS AND EYES, AND OTHER DRESS FASTENINGS - 54

Page

CANDLES; CANDLE AND LAMPWICKS - - - - - - - 56

CARRIAGES, OMNIBUSES, WAGGONS, AMBULANCES; CARRIAGE SPRINGS; CARRIAGE OF LETTERS, &c.; VELOCIPEDES - - - - - - 57

CARTRIDGES AND CASES; GUN WADS - - - - - - - 60

CASKS AND BARRELS; BUNGS; TILTING CASKS - - - - - - 61

CASTING AND MOULDING METALS; MANUFACTURE OF CASTINGS - - 62

CASTING AND MOULDING PLASTIC MATERIALS; MANUFACTURE OF MOULDED ARTICLES; PLASTIC COMPOSITIONS; MOULDING FUEL - - - 64

CEMENT AND PLASTER - - - - - - - - - - 67

CEMENTED AND FLOCKED FABRICS; ADHERING POWDER, FIBRES, &c.; CEMENTED YARNS; CEMENTED WICKER-WORK - - - - - 68

CHAINS; CHAIN CABLES; HOOKS, HOOPS, RINGS - - - - - 69

CHARCOAL, COKE, CARBON, LAMP AND ANIMAL BLACK - - - - - 70

CHENILLE; CHENILLE FABRICS - - - - - - - - 71

CHEQUES - - - - - - - - - - - - - 71

CHLORIDES - - - - - - - - - - - - 72

CHURNS; MAKING BUTTER; COLOURING CHEESE PASTES - - - - 72

CISTERNS, WATER TANKS, BUCKETS, TUBS - - - - - 72

CLOCKS, WATCHES AND OTHER TIMEKEEPERS; CALENDARS; WATCH KEYS, CHAINS AND GUARDS - - - - - - - - - 73

COATING, COVERING, PLATING, SHEATHING - - - - - - 75

I.—Coating, Plating, Lining and Facing Metallic Surfaces with Metals or other Substances - - - - - - - - - 75

II.—Coating, Plating, Lining and Facing Glass, Wood, Stone, Plastic Materials, Textile Fabrics, &c. - - - - - - - 79

III.—Coating, Sheathing and Facing Ships; Compositions for the purpose - - - - - - - - - - 81

IV.—Covering Rollers - - - - - - - - - 84

COFFEE, COCOA AND TEA; COFFEE-POTS, TEA-FOUNTAINS - - - - 84

COFFINS; MOURNING CARRIAGES - - - - - - - - 85

Page

COINS AND MEDALS; COINING - - - - - - - - 85

COMBS - - - - - - - - - - - - 86

COMPASSES; MEASURING ANGLES; SURVEYING; MATHEMATICAL AND GEOMETRICAL INSTRUMENTS; LEVELS - - - - - - - 86

CONDENSING, COOLING, MAKING ICE - - - - - - - 87

COOKING AND APPARATUS USED IN COOKING - - - - - - 90

COPYING, TRACING, RULING, DRAWING AND WRITING - - - - - 91

CORK; CORKS AND BUNGS - - - - - - - - - 92

CUTTING, SAWING AND PLANING - - - - - - - - 93

I.—Cutting, Sawing, Planing, &c. Metal, Stone, Wood, Cork and Slate; Screw Benches - - - - - - - - - 93

II.—Cutting Paper, India Rubber, and Tobacco; Cutting and Splitting Leather and Cloth; Cutting-out Clothing - - - - - 95

CYLINDERS, ROLLERS, DRUMS; COVERING ROLLERS - - - - - 96

DENTISTRY; ARTIFICIAL TEETH AND PALATES - - - - - - 100

DESTROYING INSECTS; CATCHING FLIES - - - - - - - 101

DISINFECTING, DEODORIZING - - - - - - - - 101

DISTILLING AND RECTIFYING - - - - - - - - 101

I.—Alcoholic Distillation; Manufacture of Spirituous Liquors - - 101

II.—Bituminous, Resinous and Oleaginous Distillation - - - 103

DOCKS, HARBOURS, BREAKWATERS, PIERS, QUAYS, LANDING-STAGES; CANALS; SUBMARINE WORKS - - - - - - - - - 104

DOORS AND GATES; DOOR FURNITURE - - - - - - - 104

DRAINS, SEWERS, GUTTERS; DRAIN PIPES AND TILES; DRAINING; STENCH TRAPS - - - - - - - - - - - 105

DRESSING-CASES; HAIR-DRESSING; SHAVING-BRUSHES; PERFUMERY - 106

DRYING AND STRETCHING; EXPRESSING MOISTURE - - - - - 107

DYEING TEXTILE FABRICS, YARNS AND MATERIALS; FIXING COLOURS; MORDANTS - - - - - - - - - - - 109

Page

DYES AND PRINTING-COLOURS - - - - - - - - - 111

EARTHENWARE AND PORCELAIN; POTTERY KILNS; POTTERS' SLIP; GLAZES; CERAMIC WARES - - - - - - - - - 112

ELECTRICITY, GALVANISM AND MAGNETISM, AND THEIR APPLICATION - 114

ELECTRO-PLATING AND GALVANIZING; ELECTROTYPING; DEPOSITING METAL BY ELECTRICITY - - - - - - - - - - - 117

EMBOSSING; PRODUCING RAISED PATTERNS - - - - - - 118

ENAMELLING; ENAMELS - - - - - - - - - - 119

ENGRAVING AND ETCHING; PRODUCING SUNK DEVICES - - - 120

ENVELOPES - - - - - - - - - - - - 121

EXCAVATING AND TUNNELLING; DREDGING AND CLEANSING RIVERS - 122

EXTRACTS, INFUSIONS, DECOCTIONS - - - - - - - 122

FABRICS; ELASTIC FABRICS - - - - - - - - 123

FEATHERS; FLOWERS; ARTIFICIAL FLOWERS - - - - - 125

FENCES AND RAILINGS - - - - - - - - - - 125

FIBRES (*Obtaining from Plants, Recovering from Manufactured Goods, Separating, Cleaning, Packing*). 126

FILES AND RASPS - - - - - - - - - - 129

FILES OR CLIPS FOR PAPERS, &C. - - - - - - - - 130

FILTERING, PURIFYING AND CLARIFYING LIQUIDS; FILTERS; DISTILLING WATER; SOFTENING WATER - - - - - - - - - 130

FINISHING, DRESSING, SINGEING, SHEARING, FOLDING AND PRESSING WOVEN FABRICS, YARNS, &C. - - - - - - - - - 131

FIRE-ARMS, GUNS, ORDNANCE, GUN-CARRIAGES, TARGETS, RIFLE-RANGES - 134

FIRE-ENGINES; FIRE-ESCAPES; EXTINGUISHING FIRES - - - - 139

FIRE-PLACES, GRATES AND STOVES; FENDERS AND FIRE-IRONS, FIRE-GUARDS; COAL-BOXES AND CINDER SIFTERS - - - - - - 141

Page

FISHING NETS, CATCHING FISH, HARPOONS - - - - - 142

FLUES AND CHIMNEYS; CHIMNEY TOPS, CURING SMOKY CHIMNEYS; CHIMNEY WIND GUARDS - - - - - - - - - 142

FOOD FOR CATTLE, POULTRY, &c.; CHAFF CUTTING; FEEDING ANIMALS - 144

FORTIFICATIONS, BATTERIES, SHIPS OF WAR, GUN-BOATS, ARMOUR-PLATED SHIPS - - - - - - - - - - - - 145

FUEL; TREATING COAL; PREPARING FIRE-WOOD; FIRE-LIGHTERS - 148

FULLING AND FELTING; FELTED FABRICS; FLOCK - - - - 149

FURNACES AND FIRE-BOXES; SUPPLYING FURNACES WITH FUEL - - 150

FURNITURE;—BEDSTEADS, TABLES, CHAIRS, CRADLES AND NURSING-APPARATUS; CASTERS; BEDSTEAD-BOTTOMS - - - - - 155

GAS, GASOMETERS, HOLDERS AND RETORTS - - - - - 158

GAS AND OTHER BURNERS AND REGULATORS; GAS FITTINGS; LIGHTING GAS; PREVENTING ESCAPE OF GAS - - - - - - - 161

GAUGES, SAFETY PLUGS, WATER LEVEL INDICATORS - - - - 162

GLASS; APPLICATIONS OF GLASS - - - - - - - 163

GLOVES; GLOVE FASTENINGS - - - - - - - 165

GOVERNORS AND INDICATORS OF SPEED AND POWER FOR STATIONARY ENGINES AND MACHINERY; STARTING, STOPPING AND REVERSING APPARATUS; MACHINERY-BREAKS - - - - - - - 166

GRINDING AND CRUSHING CORN, GRAIN, SEEDS, &c.; DRESSING FLOUR; MILLSTONES - - - - - - - - - - - 170

GRINDING AND CRUSHING MINERALS, CLAY, FIBROUS PLANTS, &c.; BREAKING STONE - - - - - - - - - 171

GRINDING AND SHARPENING; FLAT GRINDING AND POLISHING; GRINDING SURFACES; EMERY COMPOSITION FOR POLISHING - - - - 172

GUNPOWDER AND EXPLOSIVE COMPOUNDS; POWDER FLASKS - - - 173

	Page
GUTTA-PERCHA AND INDIA-RUBBER (*Preparing, Treating, Vulcanising*) - -	174
GUTTA-PERCHA AND INDIA-RUBBER AS APPLIED IN VARIOUS MANUFACTURES	175
HAMMERS, MALLETS, ADZES, CHISELS, SPADES AND PICKS - - -	179
HARNESS, SADDLES, BITS, STIRRUPS AND WHIPS; DUMB JOCKEYS AND NUMNAHS; HARNESSING; CURRYING HORSES - - - - -	179
HATS, CAPS, BONNETS, LADIES' CAPS, CAP-FRONTS, ROUCHES; COVERINGS FOR THE HEAD - - - - - - - - - -	181
HEATING AND EVAPORATING; REGULATING HEAT - - - - -	182
HOISTS, CRANES, CAPSTANS, WINDLASSES; RAISING AND LOWERING HEAVY BODIES; RAISING FROM MINES; RAISING SUNKEN SHIPS -	187
HORSE-SHOES, SHOEING HORSES, HORSE-SHOE NAILS - - - -	190
HORTICULTURE, HOTHOUSES, GREENHOUSES, FERNERIES, HORTICULTURAL CASES, GARDEN POTS, FLOWER STANDS; LAWN MOWING; SULPHURING VINES - - - - - - - - - - - -	191
INKS, INKSTANDS, PEN TRAYS - - - - - - - -	192
INLAYING; INLAID WORK - - - - - - - - -	193
JEWELLERY, LOCKETS, BROOCHES, BRACELETS, WATCH CHAINS, SWIVELS AND KEYS - - - - - - - - - - -	193
JOINING, JOINTING, COUPLING; PIPE JOINTS, RAILWAY JOINTS, FURNITURE JOINTS AND HINGES; PACKING FOR JOINTS - - - - -	195
KNIVES, FORKS, SPOONS, SCISSORS, SHEARS; CLEANING KNIVES - -	199
LAMPS, LANTERNS, CHANDELIERS, CANDLESTICKS, LAMP FURNITURE, GLASSES AND SHADES; LIGHTING - - - - - - -	201
LEATHER, SKINS AND HIDES; ARTIFICIAL LEATHER AND PARCHMENT; UNHAIRING AND TANNING LEATHER; CUTTING AND ORNAMENTING LEATHER; MAKING LEATHER LACES - - - - - - -	203
LOCKS, LATCHES, BOLTS; LOCK FURNITURE; SAFES AND TILLS - -	205
LOOKING GLASSES AND FRAMES - - - - - - - -	206

Page

MANGLING, IRONING, GOFFERING, ROUCHING - - - - - 207

MANTEL-PIECES - - - - - - - - - - - 208

MANURE; TREATING SEWAGE - - - - - - - - 208

MAPS; REPRESENTING ATMOSPHERICAL PHENOMENA - - - - 210

MATCHES, FUSES, PIPE LIGHTS, SPILLS - - - - - - - 210

MEASURING AND GAUGING LENGTH, SIZE AND QUANTITY; REGISTERING AND COUNTING WORK PERFORMED IN MACHINES, LOOMS, &c.; COUNTING MONEY - - - - - - - - - - - 211

MEASURING AND REGISTERING PROGRESS OF LOCOMOTIVES, CARRIAGES AND SHIPS; COUNTING APPARATUS OR TURNSTILES FOR CABS, &c.; MEASURING DEPTH OF WATER AND VELOCITY OF STREAMS; TAKING SOUNDINGS - - - - - - - - - - - 212

MEDICINES AND CURATIVE APPARATUS; INFANTS' FEED-BOTTLES; CHEST-EXPANDERS; MEDICAL BATHS; INVALID BEDS, &c. - - - 213

METALLIC SALTS AND OXIDES - - - - - - - - 215

METALS - - - - - - - - - - - - - 216

I.—Smelting, Extracting and Reducing Metals; Treating Ores; Refining, Tempering and Annealing Metals; Manufacture of Iron and Steel; Metallic Alloys and Substitutes - - - - - - 216

II.—Casting and Moulding Metals; Moulds and Core-boxes - - 221

III.—Forging, Rolling, Hammering, Rivetting, Bending, Welding and Shaping Metals; Steam Hammers, Anvils - - - - - 223

IV.—Cutting, Planing, Punching, Boring and Rifling Metals - - 227

V.—Plating and Coating Metallic Surfaces with Metal; Finishing and Ornamenting Metallic Surfaces - - - - - - - 229

METERS FOR GAS AND FLUIDS - - - - - - - - 231

MINING; BORING AND BLASTING ROCK; RAISING COALS, &c. FROM MINES; DRAINING, LIGHTING AND VENTILATING MINES - - - 232

MIXING, MASHING - - - - - - - - - - 234

MOTIVE-POWER MACHINES; OBTAINING MOTIVE-POWER - - - - 235

I.—Air, Gas, and Wind Engines and Mills; Pneumatic Motive-power - 235

II.—Steam-engines (*Stationary, Locomotive and Marine*) - - - 236

III.—Water-wheels and Engines; Hydraulic Motive-power - - - 242

IV.—Electro-magnetic Engines; Electro Motive-power - - - 243

V.—Mechanical Motive-power, Horse-power - - - - - 244

Page

MOULDINGS AND ARCHITECTURAL ORNAMENTS - - - - - 244

MUSICAL INSTRUMENTS; MUSIC STANDS; TURNING OVER LEAVES OF MUSIC - - - - - - - - - - - - 246

NAILS AND SPIKES; BOLTS AND RIVETS; SCREWS AND SCREW-BLANKS; NUTS AND WASHERS; SCREW-STOCKS AND DIES; DOWELS OR HOLDFASTS 247

OIL-CLOTHS, FLOOR-CLOTHS, FURNITURE COVERS; TARPAULING, AWNINGS; KAMPTULICON - - - - - - - - - - 250

OILING OR LUBRICATING; MATERIALS FOR OILING; OIL-CANS AND LUBRICATORS - - - - - - - - - - 250

OILS FROM SEEDS, &c.; TREATING OILY AND FATTY MATTERS; ANIMAL OILS; GLYCERINE, STEARINE - - - - - - - - 252

OILS OF TAR, BITUMEN AND RESIN; NAPHTHA, PARAFFINE, &c.; MINERAL OILS; HYDRO-CARBONS, PHOSPHORUS - - - - 254

OPTICAL INSTRUMENTS; SPECTACLES - - - - - - - 255

OVENS AND KILNS - - - - - - - - - - - 256

OXIDATION AND INCRUSTATION (*Preventing and Removing*); OXIDISING - - 257

PAINTING, COLOURING AND VARNISHING; PAINTS, COLOURS, VARNISHES, GLAZES AND LACQUER - - - - - - - - - - 258

PAPER, PASTEBOARD, AND PAPIER-MÂCHÉ; PAPER-HANGINGS - - - 261

I.—Making Paper, Papier-mâché, Preparing Pulp, &c. - - - 261

II.—Cutting, Folding and Ornamenting Paper and Papier-mâché - - 265

III.—Paper-hangings - - - - - - - - - 266

PAVING AND ROAD MAKING; PAVEMENTS - - - - - - 266

PEAT - - - - - - - - - - - - - 267

PENS, PENHOLDERS, PENCILS AND PENCIL-CASES - - - - - - 268

PETTICOATS, SKIRTS, STAYS, BUSTS, CRINOLINES, MANTLES, RUFFLES, COLLARS AND OTHER LIKE ARTICLES OF LADIES' ATTIRE - - - 269

PHOTOGRAPHY AND PHOTOGRAPHIC APPARATUS; STEREOSCOPES - 272

Page

PICTURES, PICTURE-FRAMES; EXHIBITING VIEWS - - - - 273

PILE-DRIVING - - - - - - - - - - - 275

PILLARS, COLUMNS, POSTS, SLABS, STATUARY - - - - - 275

PINS AND NEEDLES - - - - - - - - - - 277

PIPES, TUBES AND SYPHONS; TOBACCO PIPES; JOINING PIPES - - 278

PISTONS AND PISTON PACKINGS - - - - - - - - 282

PLANTS, SEA-WEEDS, &c. (*Treatment of*) - - - - - - 284

PLAYING-CARDS - - - - - - - - - - - 285

PLOUGHING, DIGGING, CLOD-CRUSHING, LAND-ROLLING, HARROWING; AGRICULTURAL IMPLEMENTS; TILLING AND CULTIVATING LAND; WEEDING - 285

PRESERVING AND HARDENING WOOD, METAL, STONE, SKINS, AND OTHER SUBSTANCES - - - - - - - - - - 288

PRESERVING AND PREPARING ARTICLES OF FOOD, DRESSING FRUIT, &c. - 290

PRESSES; COMPRESSING, PACKING, ARRANGING, PARCELLING - - 291

PRINTING AND TRANSFERRING; TYPE AND OTHER SURFACES FOR PRINTING; COMPOSING AND DISTRIBUTING TYPE - - - - - 293

PROPELLING, DRIVING, WORKING; TRANSMITTING POWER AND MOTION; CONVERTING MOVEMENTS - - - - - - - - 297

I.—Propelling Ships; Locomotion on Water; Propellers, Paddle-wheels and Screws - - - - - - - - - 297

II.—Propelling Carriages; Locomotion on Land - - - - - 299

III.—Driving Machinery, Ploughs and Pumps; Feed Motions, Guides, Adjustments and Traversers; Transmitting Power and Motion; Cranks and Gearing - - - - - - - - 300

PUMPS; PUMPING AND RAISING WATER AND OTHER LIQUIDS; PUMP PISTONS AND PACKINGS; SHIPS' PUMPS; BEER-ENGINES; TURBINES - 312

PURSES AND FASTENINGS - - - - - - - - 316

Page

RAGS AND WASTE; SEPARATING FIBRES FROM FABRICS - - - 316

RAILWAYS AND RAILWAY CARRIAGES - - - - - - - 317

I.—Permanent Way, Rails, Rail-joints, Chairs and Sleepers; Portable Railways, Atmospheric Railways, Tramways - - - 317

II.—Railway Switches, Points, Crossings and Turntables - - - 320

III.—Railway Carriages; Coupling, Uncoupling and Altering Position of Carriages and Engines - - - - - - - - 320

IV.—Railway Buffers and Breaks; Retarding and Stopping Trains; Preventing Collisions, &c. - - - - - - - - 322

REAPING, MOWING, MAKING HAY - - - - - - - - 323

REFLECTORS FOR LAMPS; REFLECTION OF LIGHT - - - - 325

RETORTS AND CRUCIBLES - - - - - - - - - 326

ROPES, CORDAGE, TWINE, OAKUM, WIRE ROPES - - - - - 327

SALT - - - - - - - - - - - - - 328

SEWING AND EMBROIDERING - - - - - - - - - 328

SHIP AND BOAT BUILDING, SHEATHING, REPAIRING, WORKING, LOADING AND UNLOADING; MASTS, SPARS, &C. - - - - - - - 330

SHIPS' BOATS (*Lowering and Disengaging*) - - - - - - - 336

SHIPS' RIGGING AND SAILS; REEFING AND FURLING SAILS; LOWERING MASTS; SHIPS' RIG - - - - - - - - - 336

SHIRTS, COLLARS, WRISTBANDS, NECKTIES, CRAVATS, SCARFS - - 337

SHOT, SHELL, BULLETS AND OTHER PROJECTILES - - - - - 339

SHOW CASES AND BOXES, SHOW BOARDS OR TABLETS, SHOP-FRONTS, STREET PLATES, NAME PLATES, LETTERS - - - - - - - 340

SIFTING, SORTING, SEPARATING - - - - - - - - 342

SIGNALS, ALARMS, COMMUNICATING-APPARATUS, PNEUMATIC TELEGRAPHS - 343

Page

SINGEING PIGS - - - - - - - - 347

SIZING, WARPING, BEAMING AND PREPARING YARNS FOR WEAVING - 347

SMOKE PREVENTION; BURNING AND CONDENSING SMOKE; SAVING FUEL - 348

SOAP - - - - - - - - - - - - 351

SOWING SEEDS AND DISTRIBUTING MANURE; TREATING GROWING CROPS - 351

SPINDLES; SPINDLES AND FLYERS - - - - - - - - 352

SPINNING AND PREPARING FOR SPINNING - - - - - - - 354

I.—Opening, Ginning, Breaking and Cleaning Fibrous Materials - - 354

II.—Carding, Combing and Heckling Fibrous Materials; Making Cards - 356

III.—Roving, Slubbing, Spinning, Twisting, Doubling and Throwing Fibrous Materials - - - - - - - - 359

SPONGE (*Substitute for*) - - - - - - - - - - 365

SPRINGS - - - - - - - - - - - - 365

STABLE FLOORS - - - - - - - - - - - 367

STAMPS AND DAMPERS; TICKETS; STAMPING, MARKING AND SEALING; SEALING-WAX - - - - - - - - - - 367

STARCH, SIZE, GUM, GLUE AND GELATINE - - - - - - 368

STEAM AND OTHER BOILERS; CLEANSING AND PREVENTING INCRUSTATION OF BOILERS; WATER-FEEDING APPARATUS FOR BOILERS - - 369

I.—Constructing Steam and other Boilers; Generating and Superheating Steam; Preventing Boiler Explosions - - - - 369

II.—Cleansing and Preventing Incrustation in Boilers; Purifying the Water - - - - - - - - - - 374

III.—Water-feeding Apparatus for Boilers; Heating Feed-water - - 375

STEAM-ENGINES (*Stationary, Locomotive, and Marine*) - - - - - - 376

STEERING OR GUIDING SHIPS, CARRIAGES, PLOUGHS, &C. - - - - 382

STONE AND SLATE; ARTIFICIAL STONE; GRINDSTONES AND MILLSTONES; SAND, LAVA - - - - - - - - - - 384

STRAPS, DRIVING-BANDS AND BELTS - - - - - - - 386

SUGAR AND SYRUPS - - - - - - - - - - - 387

Page

SULPHUR - - - - - - - - - - - - - 388

SURGERY, SURGICAL INSTRUMENTS, TRUSSES FOR HERNIA; INVALID FURNITURE AND CARRIAGES; FACILITATING HEARING - - - - 389

SWIMMING, PREVENTION OF DROWNING, SWIMMING BELTS AND APPARATUS 390

TAR, PITCH, RESIN, CREOSOTE, CHAPAPOTE - - - - - - 390

TELEGRAPHS (*Electric*); TELEGRAPHIC PRINTING APPARATUS - - - 391

TESTING APPARATUS - - - - - - - - - - 394

THERMOMETERS, BAROMETERS, HYGROMETERS - - - - - - 395

THRASHING, WINNOWING, HULLING, DRESSING, CLEANSING, DRYING, STORING AND PRESERVING CORN, GRAIN, SEEDS AND RICE; GRANARIES 396

THREADS AND YARNS - - - - - - - - - - 398

TOBACCO AND SNUFF; CIGARS, CIGAR-HOLDERS, PIPE AND CIGAR LIGHTERS; SMOKING-PIPES; TOBACCO AND SNUFF BOXES; TOBACCO POUCHES - 399

TOYS, GAMES AND EXERCISES - - - - - - - - 400

TRAYS, DINNER PLATES, CUPS - - - - - - - - 401

TURNING; LATHES FOR TURNING - - - - - - - - 401

UMBRELLAS, PARASOLS, UMBRELLA FURNITURE AND COVERS, UMBRELLA STANDS; WALKING-STICKS - - - - - - - - 402

UPHOLSTERY (*Mattresses, Beds, Cushions, Curtains*); MATS AND MATTING; HASSOCKS - - - - - - - - - - - 403

VALVES, TAPS, STOP-COCKS, PLUGS; REGULATING THE FLOW AND PRESSURE OF FLUIDS - - - - - - - - - - 405

VASES - - - - - - - - - - - - - 409

VENTILATION; SUPPLYING AND PURIFYING AIR FOR BUILDINGS, MINES, SHIPS, CARRIAGES, &C. - - - - - - - - - 410

Page

VICES, SPANNERS, SCREW-WRENCHES, SCREW-JACKS - - - - 412

WASHING, CLEANSING AND WRINGING FABRICS, YARNS AND MATERIALS; LAVATORIES - - - - - - - - - - - 412

WATER-CLOSETS, URINALS AND COMMODES - - - - - 414

WATERING, SUPPLYING AND DISTRIBUTING WATER; FOUNTAINS - - 415

WATERPROOFING AND FIREPROOFING; WATERPROOF AND FIREPROOF FABRICS; COMPOSITIONS FOR WATERPROOFING, &c. - - - - 416

WATERWHEELS AND ENGINES; HYDRAULIC MOTIVE-POWER - - - 417

WEARING-APPAREL, KNAPSACKS, MILITARY ACCOUTREMENTS; TAILORS' TRIMMINGS; HEATING TAILORS' IRONS - - - - - 418

WEAVING, BRAIDING, PLATTING; PREPARING FOR WEAVING - - 420

I.—Sizing, Warping, Beaming and Preparing Yarns for Weaving - 420

II.—Weaving Plain, Figured and Double Fabrics; Jacquards and Looms; Woven Fabrics - - - - - - - - - 421

III.—Weaving Carpets, Velvets and other Pile and Terry Fabrics; Carpet Looms - - - - - - - - - - 424

IV.—Knitting; Lace-making; Stocking Frames; Warp Fabrics; Nets and Meshed Fabrics - - - - - - - - - 425

V.—Weaving Fringes, Ribbons, &c.; Producing Braid - - - 427

VI.—Shuttles - - - - - - - - - - 428

VII.—Temples, Pickers, Healds and Reeds - - - - - 429

VIII.—Letting-off and Taking-up Motion; Stopping Looms - - - 430

WEIGHING-MACHINES, SCALES, INDICATING WEIGHT, ASCERTAINING SPECIFIC GRAVITY - - - - - - - - - - 431

WHEELS FOR CARRIAGES; RAILWAY WHEELS; WHEEL TIRE, &c. - 431

WHEELS FOR MACHINERY; COG WHEELS; PULLEYS, CAMS, &c. - - 434

WINDING, REELING AND BALLING YARN OR THREAD - - - - 435

WINDOW BLINDS AND SUN SHADES - - - - - - - - 436

WINDOWS AND SASHES; WINDOW FRAMES AND SHUTTERS; GLAZING - 436

WIRE-WORKING; WIRE-ROPES, WIRE GAUZE; TELEGRAPH CABLES - - 438

WOOD AND VENEERS; ARTIFICIAL WOOD - - - - - - - 440

SUBJECT-MATTER INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1861.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS (*Prevention of*).			
An improved apparatus for stopping run-away horses. (*Communicated by Louis Marquee.*)	13	3rd Jan. 1861	Charles Stevens.
Improved means of signalling or communicating with the guard or engine driver in railway trains.	75	11th Jan. 1861	William Henry Muntz.
Fog-signals for railways - - - - -	99	14th Jan. 1861	Crane Brush.
Improved means of communication on railways for the prevention of accidents.	146	19th Jan. 1861	William Crozier.
Certain improved apparatus for preventing steam-boiler explosions and for decolorizing the gaseous products of furnace fuel in a state of combustion.	190	24th Jan. 1861	Frederick George Mulholland.
Shutting off the steam and operating upon the breaks of engines employed in lowering into and lifting from mines or pits.	203	25th Jan. 1861	Jesse Law.
Machinery for shaping metal - - - -	219	28th Jan. 1861	Charles de Bergue.
Safety and other lamps - - - - -	239	29th Jan. 1861	Charles Edward Crawley. Theodore Schneider.
Fire-escapes - - - - - -	281	2nd Feb. 1861	Augustus Lea Bricknell.
Improvements in apparatus for providing against accidents in hoisting machinery, part of which improvements are applicable to railway carriage coupling links - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1891	Marcus Brown-Westhead.
An improved alarm whistle applicable to steam-boilers and indicating the level of the water therein.	428	21st Feb. 1861	Jules Dutilleul.
Safety apparatus for lighting mines - -	438	21st Feb. 1861	Herbert Panmure Ribton.
Manufacture and mode of laying down submarine electro-telegraphic cables.	481	25th Feb. 1861	George Clark.
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore.	492	26th Feb. 1861	William Henry James.
Improvements in steam-engines and boilers, and in propelling and steering vessels	509	27th Feb. 1861	William Weallens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS, &c.—*continued.*			
Apparatus for preventing the explosion of steam-boilers. (*Communicated by Charles Voelckner.*)	592	9th March 1861	Henry Bernoulli Barlow.
Improved apparatus for arresting the progress of railway accidents.	600	11th March 1861	George Williams Baker.
Life belts and swimming belts - - - (*Communicated by Messrs. Torrilhon, Verdier and Company.*)	601	11th March 1861	John Henry Johnson.
Improved apparatus for saving life at sea or in other waters. (*Communicated by Joseph Dauphin St. Supery.*)	629	14th March 1861	William Edward Gedge.
Apparatus or means for preventing locomotive engines and carriages leaving the rails.	632	14th March 1861	Frederick Roessler.
Water, steam, and mercury gauges - -	644	15th March 1861	William Collins.
Safety fuses for mining and other purposes -	719	22nd March 1861	Joseph Victor. James Polglase.
Steam-engines and boilers - - - - -	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in steam-engines and boilers, and in apparatus connected therewith. (*Safety valves.*)	786	30th March 1861	John Cass.
Fire-escapes - - - - - -	863	8th April 1861	William Clayton.
Condensers - - - - - - (*Available in case of fire or leakage.*)	880	10th April 1861	Andrew Lamb.
Heating apparatus for domestic and other purposes	964	19th April 1861	Isaac Riley. Thomas Carns Wolstenholme.
Improvements in safety lamps and in domestic grates, stoves, and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Arrangements or apparatus for preventing water pipes from bursting by the action of frost.	1026	24th April 1861	Daniel Stone.
Improved means or apparatus for releasing horses from vehicles, and for locking the wheels thereof in prevention of accident.	1102	2nd May 1861	Laurent Glatard.
Fire-escapes - - - - - -	1164	8th May 1861	Louis Wyttenbach. Philippe Lugand.
An improved thermometrical fire-alarum and extinguisher.	1173	9th May 1861	George Carter.
Construction, ventilation, and propulsion of life boats. (*Communicated by John Theodore Scholl.*)	1205	11th May 1861	William Clark.
Improvements in apparatus for the manufacture of aërated waters, and in vessels or receptacles for containing the same. (*Safety valve.*) (*Communicated by Jean Louis André and Philippe Ferdinand Guillot.*)	1231	14th May 1861	John Henry Johnson.
Safety and other lamps - - - - -	1248	16th May 1861	William Renwick Bowditch.
Machinery and apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
Improvements in window seats for the prevention of accidents.	1346	30th May 1861	William Brown Rooff.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS, &c.—*continued.*			
An improved apparatus to be applied to the shoes of horses and other shod animals to prevent them from slipping in frosty weather. (*Communicated by Pierre Thiry, senr.*)	1361	31st May 1861	Richard Archibald Brooman.
An improved electro-thermometrical alarum -	1443	7th June 1861	Hyppolite Auguste Balsac.
Means or apparatus employed in signalling on railways.	1479	10th June 1861	Charles Frederick Whitworth.
An improved method of constructing safety rifle and other gun ranges.	1494	11th June 1861	Charles Cheyne.
Apparatus in connection with railway carriage buffers for preventing damage in cases of railway collision.	1747	11th July 1861	Patrick Adie.
Safety lamps - - - - - -	1789	16th July 1861	Richard Jones.
Means of preventing the extension of fire in buildings.	1842	23rd July 1861	Charles Batty.
Apparatus for protecting and arranging water pipes and withdrawing water therefrom and preventing injury thereto by frost - -	1927	3rd Aug. 1861	George Fowler Jones. James Jones.
Improvements in steam-boilers and in apparatus connected therewith - - - - -	1948	6th Aug. 1861	William Galloway. John Galloway. John William Wilson.
Improved apparatus for succouring persons interred before life is extinct. (*Communicated by Ramond Maleville.*)	2164	30th Aug. 1861	Hippolyte Lecaudey.
Apparatus to prevent over winding at coal and other mines - - - - - -	2175	31st Aug. 1861	John Copple. Edward Copple.
Signal apparatus applicable for the prevention of railway train collisions. (*Communicated by Mr. Antoine Grivel, junior.*)	2185	2nd Sept. 1861	William Clark.
Improvements in apparatus for signalling on railways by means of electricity. (*Communicated by Eugene Vincenzi.*)	2234	6th Sept. 1861	Michael Henry.
An improved apparatus for the prevention of accidents to vehicles drawn by affrighted horses.	2272	13th Sept. 1861	William Davis.
Improved automatic electric signals to prevent collisions on railroads and railways.	2292	14th Sept. 1861	Frederic Barnett.
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta percha, caoutchouc, bitumen, and earthenware.	2382	24th Sept. 1861	Thomas Davey.
A self-acting alarum which can be fixed on tenders, guards' compartments or other parts of railway trains, for preventing collisions.	2432	30th Sept. 1861	Edward Funnell.
Protecting the locks and sights of fire-arms -	2439	30th Sept. 1861	Henry Hickman.
Markers, butts or mantelets - - -	2445	1st Oct. 1861	Robert Nightingale.
An improved miners' lamp - - -	2512	8th Oct. 1861	Isaac Evans, junior.
Improvements in lifting or hoisting apparatus whereby to ensure the safety of the cage or article lifted when a rope or chain breaks or is overwound, and in hoists generally as applied to mills, warehouses and other buildings - -	2579	16th Oct. 1861	Joseph Lister. David Myers.
Improved electric danger signals for railways and other cognate purposes.	2682	26th Oct. 1861	Frederic Barnett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS, &c.—*continued.*			
Improvements in railway signal apparatus for the prevention of the collision of trains. (*Communicated by Messrs. Auguste Lucien Vérité and Julien Stéphane Bazin.*)	2807	8th Nov. 1861	William Clark.
Safety lamps (*Communicated by Mr. Pierre Dernoncourt.*)	2829	11th Nov. 1861	William Clark.
Improvements in the construction of bottles and other vessels and in stoppers for the same, to indicate that they contain poison.	2861	13th Nov. 1861	Henry Bird.
"Davy" or other safety lamps for miners	2922	21st Nov. 1861	James Parkinson. Charles Henry Minchin.
An improved fire-escape	2963	25th Nov. 1861	George Clarke.
An improved safety buffer or apparatus to be used in railway trains to prevent accidents from collisions. (*Communicated by Richard Dover Chatterton.*)	3014	29th Nov. 1861	Richard Archibald Brooman.
An improved arrangement of fire-escape (*Communicated by Aaron Shute.*)	3135	13th Dec. 1861	Alfred Vincent Newton.
An improved water safety valve	3148	14th Dec. 1861	William Husband.
Railway point signals	3157	16th Dec. 1861	William George Laws.
ACIDS AND VINEGAR.			
Improvements in the manufacture of sulphuric acid and also in separating copper and silver from their ores.	42	7th Jan. 1861	George Dryden Mease.
Improvements in the manufacture of sulphurous acid, sulphites and bi-sulphites and sulphuric acid, and in the apparatus employed therein, and in the application of one of the products of such manufacture to the bleaching of textile, animal and vegetable substances.	209	26th Jan. 1861	Charles Achille Drevet.
Treatment of soda waste and sulphurets	330	9th Feb. 1861	John Louis Jullion.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan,") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining acetic acid, wood spirit, &c.*)	650	15th March 1861	William Lorberg.
Improvements in the manufacture of nitric acid and caustic soda, which are also applicable to the obtaining of other chemical products.	932	16th April 1861	James Drysdale Malcolm.
Manufacture of sulphuric acid	1006	23rd April 1861	Peter Ward.
Improvements in the treatment of certain ores containing metals and in obtaining products therefrom	1084	1st May 1861	Robert Laing. Israel Swindells.
An improved treatment of natural phosphate of lime for several purposes.	1200	11th May 1861	Auguste César Achille Gérard de Melcy.
Treatment of fatty and oily matters (*Obtaining fatty acids.*)	1410	4th June 1861	Heinrich Ludwig Buff.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Acids, &c.—*continued.*			
Improvements for economising fuel in evaporating and concentrating chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith. (*Making sulphuric acid.*)	1462	8th June 1861	Joseph Roman.
Improvements in economizing the manufacture of sulphuric acid and in obtaining copper from ores used in such manufacture.	1695	3rd July 1861	Peter Spence.
Obtaining products from alkali waste and gas lime refuse. (*Sulphurous acid.*)	1726	6th July 1861	Alfred Noble.
An improved process for the treatment of silicates of metallic and non-metallic bases and other siliceous compounds, as slags, scoriæ and such like, in order to recover the said bases, and also in the production of fluo-silicic and silicic acids.	1734	9th July 1861	Thomas Cobley.
Extracting the fibres from genista scoparia (broom), and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom. (*Obtaining picric acid.*)	1783	15th July 1861	Emile Georges Fermîer de la Provotais.
Improvements in the manufacture of soda, carbonate of soda and hydro-chloric acid, and in apparatus connected therewith.	1790	16th July 1861	Joseph Pierre Gillard.
An improved mode of obtaining nitrous acid gas for making sulphuric acid - - - -	1819	19th July 1861	Robert Laing. George Horwood Cossins.
A new and economical method of producing dynamic electricity, thereby obtaining useful chemical compounds. (*Obtaining elaidic acid.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Apparatus for the simultaneous manufacture of white lead and vinegar. (*Communicated by Robert Rowland.*)	2597	18th Oct. 1861	Charles Denton Abel.
Manufacture of soda and sulphuric acid - -	2695	28th Oct. 1861	Emory McClintock.
Manufacture of benzole, naphtha, naphthaline, aniline and carbolic acid.	2801	7th Nov. 1861	John Barrow.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air. (*Vinegar.*)	2906	19th Nov. 1861	Simon Dédé.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Vessels for holding acids.*)	2944	23rd Nov. 1861	John Weems.
Improvements in the treatment of ores for the manufacture of sulphuric acid and in apparatus connected therewith, which apparatus is also applicable to the treatment of ores for separating metals therefrom.	3002	28th Nov. 1861	Peter Spence.
Improvements in treating fatty and resinous bodies either in a neutral or acid state. (*Communication by Charles Moinier.*)	3241	27th Dec. 1861	Peter Armand Le Comte de Fontainemoreau.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ADVERTISING.			
A novel mode of advertizing, signalling, giving notices or other communications.	113	15th Jan. 1861	Charles Bristow Walker.
Improvements in securing or fastening envelopes, letters or other sealed packets, and in applying ornaments to the same. (*For advertising purposes.*)	677	18th March 1861	Charles Iles.
Improved show or window boards or tablets to be used for advertising and other purposes.	1119	4th May 1861	Joseph Johnson.
A peculiar mode of arranging advertisements so as to secure a more general and constant publication. (*Communicated by Francois Charles Gaillard.*)	1263	17th May 1861	George Davies.
Manufacture of letters, designs and other articles of mica variously colored or metallized. (*Communicated by Messrs. Thomas Lamie-Murray and Holthausen, Brothers.*)	1549	17th June 1861	William Clark.
A pasteboard, millboard and cardboard medal for advertising purposes in lieu of handbills.	1896	30th July 1861	Thomas Saunderson.
Construction of revolving and moveable surfaces applicable to the exhibition of advertisements, show cases, transparencies and other like matters at fixed stations - - - - -	2667	25th Oct. 1861	Edward Samuel Tucker. Frederick Erskine Manners.
An improved method of utilizing bags, wrappers or other similar articles made of paper or other materials and in any form.	3192	20th Dec. 1861	Gustave May.
An improvement in advertisements - -	3272	31st Dec. 1861	Eugène Tiphagne. Dominique Delbosque.
AËRATING; AËRATED LIQUIDS; GAZOGENE.			
An improved apparatus for raising liquids, especially beer and wine, from casks. (*Communicated by Mrs. Anne Frederique Diewan.*)	893	11th April 1861	Charles Stevens.
An improved construction of vessel for containing aërated liquids. (*Communicated by Auguste Savareze.*)	942	17th April 1861	Gustave Leroy.
Apparatus for aërating liquids - - - (*Communicated by Jean Auguste Bazet.*)	1012	23rd April 1861	Michael Henry.
Improvements in apparatus for the manufacture of aërated waters, and in vessels or receptacles for containing the same. (*Communicated by Jean Louis André and Philippe Ferdinand Guillot.*)	1231	14th May 1861	John Henry Johnson.
Apparatus for manufacturing and bottling aërated liquids. (*Communicated by Messrs. Auguste Mondollot and Jean Alphonse Mondollot, frères.*)	1671	1st July 1861	John Henry Johnson.
Apparatus for freeing gases from dust and other particles of matter floating therein, and for causing vapours or gases to be absorbed by liquids.	2326	18th Sept. 1861	Edward Alfred Cowper.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AËRATING, &c.—*continued.*			
Improvements in aërated or sparkling white wines -	2410	26th Sept. 1861	Victor Sosthène Lété.
Improved arrangements for filling and closing bottles and other vessels. (*For aërated liquids.*)	2417	27th Sept. 1861	Duncan McCallum.
Improved apparatus for manufacturing and containing gaseous liquids. ("*Gazogene.*") (*Communicated by Pierre Prudence Henri Couillard.*)	2822	9th Nov. 1861	William Edward Newton.
AËRIAL MACHINES, FLYING ENGINES, BALLOONS.			
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore. (*By use of bags inflated with air.*)	492	26th Feb. 1861	William Henry James.
Apparatus connected with aërostation - -	1929	3rd Aug. 1861	Gustave Louis Marie. Viscount de Ponton D'Amécourt.
Improvements in the mode of and apparatus for obtaining and heating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Employing hydrogen gas for filling balloons.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Enabling mankind to fly through the air - -	2420	27th Sept. 1861	Joseph Scott Phillips.
Certain improvements in propelling and sustaining balloons and aërial machines in the air.	2529	10th Oct. 1861	David Stephens Brown.
AIR, GAS, AND WIND ENGINES AND MILLS; PNEUMATIC MOTIVE-POWER.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Construction of air or gas engines - - (*Communicated by John Cleves Symmes.*)	17	3rd Jan. 1861	Alfred Vincent Newton.
Machinery or apparatus for obtaining motive-power. (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Improvements in generating burning gases to be applied as a motive-power and in apparatus for the same.	166	21st Jan. 1861	Jean Baptiste Pascal.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR ENGINES, &c.—*continued.*			
Improvements in obtaining motive-power from the expansion and compression of air, gas, or vapour, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Improvements in the heating and cooling surfaces of engines propelled by aëriform fluids. (*Communicated by Auguste Casimir Lehot.*)	338	11th Feb. 1861	Marc Antoine François Mennons.
Obtaining motive-power - - - - -	771	28th March 1861	Bartholomew Brittain.
Improvements in coining machinery, and in apparatus employed for regulating the expansion of elastic fluids. (*Expansion valve.*)	862	8th April 1861	Henry Wollaston Blake.
Improved arrangement of engine for obtaining and applying motive-power - - - - -	922	15th April 1861	James Smith. Sydney Arthur Chease.
Construction of machinery or apparatus for obtaining motive-power.	975	19th April 1861	John Gjers.
An improved wind motive-power engine - -	1210	13th May 1861	Pierre Chardemite.
Obtaining and applying motive-power by aëro-hydraulic means.	1224	14th May 1861	Thomas Charles Boutet.
Improvements in obtaining motive-power and in apparatus employed therein.	1558	18th June 1861	Richard Fell.
A new or improved construction of caloric engines (*Communicated by Nicolas de Telescheff.*)	1633	26th June 1861	Marc Antoine François, Mennons.
Improvements in engines for obtaining motive-power by the elastic force of steam and air combined, parts of which improvements may be employed for sounding steam whistles. (*Communicated by Robert Rogers.*)	1702	4th July 1861	William Edward Newton.
Construction of steam-engines, air engines and pumps.	1794	17th July 1861	Andrew William Harnett.
Hot air engines - - - - - -	1818	19th July 1861	Philander Shaw.
Engines for obtaining motive-power by an explosive mixture of inflammable gases and air. (*Communicated by Francisque Million.*)	1840	22nd July 4861	William Edward Newton.
Self-acting and inexhaustible hydraulic and atmospheric motive-power engines - - -	1969	8th August 1861	Nicholas Doran. Proby Maillard.
Improvements in compressing and rarefying atmospheric air, with machinery for applying the same to obtain a motive-power, part of which is applicable for cooking purposes.	2278	13th Sept. 1861	Richard Fell.
Construction of engines to be worked by steam, air or gases - - - - - -	2455	2nd Oct. 1861	James Davis. Thomas Evans.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
Apparatus for obtaining motive-power - -	2589	17th Oct. 1861	Thomas Edward Merritt.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills.	2599	18th Oct. 1861	William Streather.
Engines to be propelled by compressed atmospheric air or steam.	2625	21st Oct. 1861	Francis Alton Calvert.
A new mode of and apparatus for producing and obtaining an hydro-pneumatic motive-power.	2696	28th Oct. 1861	Bartolomeo Predavalle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR ENGINES, &c.—*continued.*			
Construction of air engines or air motors - -	2797	7th Nov. 1861	Theodore Schwartz.
Rotary engines - - - - - - (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Improved means of rendering steam tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines, and parts of other engines, machines and apparatus for the rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Brooman.
Improved apparatus for obtaining motive-power from explosive compounds. (*Communicated by Eugène Barsanti and Felix Matteucci.*)	3270	31st Dec. 1861	William Edward Newton.
See also "GOVERNORS."			
AIR SUPPLYING, BLOWING, AND EXHAUSTING; DRAFT AND VENTILATION.			
I.—Supplying Air to Furnaces, Stoves, Lamps, &c.; Increasing and Regulating Draft; Tuyeres; Dampers; Chimney Wind Guards; Heating Blast.			
Apparatus for ventilating - - - -	6	2nd Jan. 1861	William Cooke.
Apparatus for ventilating - - - - (*And preventing down draft.*)	6	2nd Jan. 1861	William Cooke.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Air valves for hot blast furnaces.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Chimney and ventilating cowls - - -	133	17th Jan. 1861	George Lewingdon.
Manufacture of stove grates - - - (*Compound register doors.*)	143	18th Jan. 1861	John Jobson.
Manufacture of glass - - - -	197	24th Jan. 1861	Nathaniel William Dobeson. George Warren.
Improvements in the form and construction of chimney tops or appliances for surmounting chimneys in order to regulate the up currents and obviate the down drafts - - -	207	26th Jan. 1861	James Durrant. Noel Alleyne Harris.
Chimney tops - - - - -	227	28th Jan. 1861	John Gurney Mason.
Improvements in the manufacture of malleable iron and steel and in the machinery or apparatus employed in such manufacture. (*Constructing tuyeres.*)	275	1st Feb. 1861	Henry Bessemer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Air Supplying, &c.—*continued.*			
Improved mechanism for improving the draft in open fireplaces, the same apparatus being applicable to deadening or extinguishing fires in such fireplaces.	366	13th Feb. 1861	Edward Cradock.
Furnaces - - - - - - - (*Communicated by Jean Gérard Charles Tenbrinck.*)	415	19th Feb. 1861	Michael Henry.
Improvements in the construction of furnaces for the prevention or consumption of smoke.	489	26th Feb. 1861	Edward Ettrick.
Forges - - - - - - (*Communicated by Martin Chretiennot commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	499	26th Feb. 1861	John Henry Johnson.
Chimneys - - - - - - (*Communicated by Mr. Desanges.*)	503	27th Feb. 1861	Charles Stevens.
Apparatus applicable for boiling, cooling and fermenting malt liquors, part of which may be applied to other purposes - - - - -	534	2nd March 1861	Thomas Haigh. Robert Adam Robertson.
An improved chimney head - - -	736	23rd March 1861	John Billing.
Means or apparatus for obtaining superheated or surcharged steam, and for increasing the draft through the flues of locomotive and other boilers. (*Communicated by James Martin.*)	807	1st April 1861	William Brookes.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Kitchen ranges - - - - - -	904	12th April 1861	Joseph Douglas.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.
Improvements in the construction of furnaces for the better combustion of fuel and the prevention of smoke.	960	18th April 1861	William Benson.
Mode of hardening and tempering crinoline, flattened wire or sheet steel. (*Communicated by Mr. Edwin Goodwin.*)	1038	25th April 1861	Robert Gray.
A mode of promoting a more perfect combustion of fuel in furnaces, and the manner of effecting the same.	1133	6th May 1861	Joseph Capron Tiffany.
Construction of steam and other boilers and apparatus connected therewith. (*Causing the draft current to be circuitous.*)	1145	6th May 1861	Joseph Burch.
Improved apparatus for boiling sugar - - (*Communicated by Hector Lavignac.*)	1155	7th May 1861	George Davies.
Furnace bars - - - - - - -	1185	10th May 1861	Thomas Long Jackson.
Furnaces - - - - - - -	1253	16th May 1861	Daniel Kinnear Clark.
Machinery for tunnelling and driving galleries through rock and other strata.	1386	3rd June 1861	Herbert Newton Penrice.
Apparatus for creating or increasing air drafts in flues or other channels for ventilation and other purposes.	1435	6th June 1861	Edward Hewett.
Reverberatory and other furnaces - - -	1445	7th June 1861	Henri de Simoncourt. John Kenyon Blackwell.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making tuyeres.*)	1446	7th June 1861	Samuel Bennett, jun.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in marine steam-boilers, parts of which improvements are applicable to other steam boilers, and in apparatus connected therewith.	1472	10th June 1861	Robert Armstrong.
Improvements in the form and construction of chimney tops or appliances for surmounting chimneys, in order to regulate the up currents and prevent the down drafts - - -	1504	12th June 1861	James Durrant. Noel Alleyne Harris.
An improved smoke-consuming grate - -	1506	12th June 1861	Louis Jean Jacques Pètre.
Apparatus for ventilating furnaces, drying rooms, stables, kitchens and other places.	1586	20th June 1861	Michel Francois Antoine Thibault de Menonville.
A new or improved construction of caloric engines (*Communicated by Nicolas de Telescheff.*)	1633	26th June 1861	Marc Antoine François Mennons.
Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
Treating gas in its passage from blast furnaces to the furnaces, stoves, boilers or other heating apparatus where the gas is employed.	1741	9th July 1861	Charles Cochrane.
An improved wind guard for curing smoky chimneys.	1745	11th July 1861	William Cooke.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
Forges - - - - - - - (*Communicated by Martin Chretiennot commonly called Chretiennot-Radet and Pierre Leon Rodet.*)	1847	23rd July 1861	John Henry Johnson.
Smoke-consuming furnaces - - - -	1915	1st Aug. 1861	John Cook.
Glass furnaces - - - - -	1928	3rd Aug. 1861	Charles Schinz.
An improved smoke-consuming apparatus - -	1984	9th Aug. 1861	Leonard Vassiviere.
Stoves - - - - - - -	2027	14th Aug. 1861	John Billing.
Smoke-consuming grates - - - -	2067	21st Aug. 1861	Auguste Jules Hennart.
Construction of fire grates for steam and other boilers and suitable to all kinds of fires.	2136	27th Aug. 1861	Jean Baptiste Fondu.
Furnaces - - - - - - -	2188	2nd Sept. 1861	John Watson.
Improvements in smoke-consuming furnaces - (*Communicated by Bernard Palazot.*)	2222	6th Sept. 1861	Marc Antoine François Mennons.
Lamps - - - - - - -	2301	16th Sept. 1861	Martin Rae.
Kilns or ovens for burning or calcining limestone, chalk, cement, and other substances requiring such process.	2408	26th Sept. 1861	Marie François Alexandre Courtoise.
An improved smoke-consuming stove - -	2419	27th Sept. 1861	Joseph Waller.
Chimney hoods and ventilators - - -	2436	30th Sept. 1861	Charles Hill Pennycook.
An improved miners' lamp - - -	2512	8th Oct. 1861	Isaac Evans, junior.
An improved chimney top, cap or cowl for the prevention of the descent of sooty exhalations, curing of smoky chimneys, and ventilation of apartments.	2518	9th Oct. 1861	James Walker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Air Supplying, &c.—*continued.*			
Apparatus to be applied to chimneys or flues for improving the draft therein and for preventing down drafts or the descent of smoke into apartments.	2590	17th Oct. 1861	Robert Aytoun.
Construction of blast furnaces for smelting ores -	2735	1st Nov. 1861	George Holcroft.
Method of and apparatus for preventing the injurious effects occasioned by smoke, sulphur and the deleterious gases which escape from stacks, chimneys, calcining houses, chemical and other furnaces - - - -	2750	1st Nov. 1861	William Bickford Smith. William Bennetts.
Improvements in steam generators and in furnaces for the same. (*Communicated by Alexandre Friedmann and Frederic Emile De Erlanger.*)	2778	5th Nov. 1861	Richard Archibald Brooman.
Certain improvements in cupolas and furnaces for smelting or reducing ores and for the re-melting of pig-iron - - - - -	2925	21st Nov. 1861	John Gilloes, junior. George Hinton.
Fire bars and furnaces - - - - - (*And dampers.*)	2967	26th Nov. 1861	James Brown.
An improved Cornish or other steam-boiler with smoke consumer and condenser, being also applicable for ventilation.	2982	27th Nov. 1861	George Rydill.
A wind guard for curing smoky chimneys - -	3017	30th Nov. 1861	William Cooke.
Improvements in chimney tops for the prevention of down drafts in chimneys.	3070	7th Dec. 1861	George Thomas Bladon.
Kitcheners or cooking ranges - - - (*Oven ventilator.*)	3124	13th Dec. 1861	William Bell.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
Improvements in cooking-stoves and ships' ranges - (*Communicated by John Russell.*)	3237	26th Dec. 1861	Joseph Nottingham Palmer.
II.—Supplying Air in Reaping, Mowing, Grinding, Thrashing and Cleansing Machines.			
Certain improvements in machinery or apparatus for mowing and reaping - - -	570	6th March 1861	Joseph Statham. William Statham.
Mills for grinding corn and other grain - - (*Communicated by Joseph Perrigault.*)	980	20th April 1861	Richard Archibald Brooman.
Certain improvements in machinery or apparatus for mowing and reaping - - - (*Using a blast of air to bring the corn upright.*)	2320	17th Sept. 1861	Joseph Statham. William Statham.
Apparatus for dressing flour - - -	2403	26th Sept. 1861	George Caldwell. John Young.
Apparatus for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
Improvements in thrashing-machines and in mills for grinding, and in apparatus for raising or moving grain in granaries and other places -	3188	20th Dec. 1861	John Smith, junior. John Birch Higgs.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Air Supplying, &c.—*continued.*			
Improvements in apparatus for cleaning wheat and other grain. (*Communicated by Jean Piere Fili.*)	3214	24th Dec. 1861	John Henry Johnson.
XII.—Admitting, Forcing, and Exhausting Air for Manufacturing and other Purposes; Air-pumps, Bellows, Fans and other Blowers; Forcing Gas through melted Metal, &c.			
Construction of rotary engines (*Or fan or air exhauster.*)	10	2nd Jan. 1861	John Taylor. Meshach Brittan Cooper.
Machinery or apparatus for preparing cotton or other fibrous materials to be spun ("*Blowing-machine.*")	124	16th Jan. 1861	Edwin Whittaker. Jeremiah Clare.
Improved apparatus for raising fluids (*And rarefying gases, &c.*) (*Communicated by Pierre Léon St. Clair.*)	135	17th Jan. 1861	William Clark.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Improved apparatus for exhausting and compressing air and producing air blasts. (*Communicated by Frederick William Partz.*)	224	28th Jan. 1861	William Edward Newton.
Improvements in the manufacture of malleable iron and steel and in the machinery or apparatus employed in such manufacture.	275	1st Feb. 1861	Henry Bessemer.
Bellows (*Communicated by Mr. Charles Jules Pierre Desnos-Gardissal.*)	283	2nd Feb. 1861	William Clark.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Improved apparatus for working the breaks of railway trains.	362	13th Feb. 1861	Adolf Ellissen.
Drilling, boring or excavating rock or other earthy substances	373	13th Feb. 1861	John Poole. James Wright. Frederick Shand Hemming. George Searby.
Machinery or apparatus for the manufacture of bituminized paper pipes and other similar articles.	392	16th Feb. 1861	James Horn.
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Forming air holes in the moulds.*)	470	23rd Feb. 1861	Thomas Spencer.
Manufacture of glass	554	5th March 1861	Tony Petitjean.
Apparatus for communicating sound signals	571	6th March 1861	André Desiré Martin. Prosper Verdat du Trembley.
An improved musical instrument, parts of which are applicable to organs, harmoniums and similar instruments. (*Communicated by Bertrand Fuga.*)	628	14th March 1861	William Edward Gedge.
Improving the manufacture of harmoniums	643	15th March 1861	Jules Bigourat.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Apparatus for evaporating in vacuo - -	781	30th March 1861	James John Field.
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile-driving and other such like machines and purposes - - -	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Improvements in coining-machinery, and in apparatus employed for regulating the expansion of elastic fluids.	862	8th April 1861	Henry Wollaston Blake.
An improved arrangement of atmospheric post for the transmission of letters, papers and other despatches and articles, in tubes. (*Communicated by Francois Antoine Kieffer.*)	945	17th April 1861	William Clark.
Harmoniums - - - - -	1068	27th April 1861	Henry Thomas Wedlake.
Improved apparatus for boiling sugar - - (*Hot blast for drying cane trash.*) (*Communicated by Hector Lavignac.*)	1155	7th May 1861	George Davies.
Break or stopping gear of centrifugal machines -	1094	2nd May 1861	John Charles Wilson.
Manufacturing alkaline carbonates - - (*Communicated by Joseph Mowbray Laming.*)	1367	31st May 1861	Richard Laming.
Improvements applicable to centrifugal machines - (*Communicated by Jean Adolphe Leon.*)	1399	4th June 1861	David Wilson Thomas.
An improvement in preparing, "crabbing" or finishing piece goods, and improvements in machinery employed therein.	1403	4th June 1861	Joseph Hulme Holdsworth.
Means and apparatus for facilitating the working and discharge of ordnance placed below the water level.	1541	15th June 1861	Thomas Page.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	3rd July 1861	John Petrie, junior.
Improvements in economizing the manufacture of sulphuric acid and in obtaining copper from ores used in such manufacture.	1695	3rd July 1861	Peter Spence.
An improved process and apparatus for concentrating ores or tailings or separating pulverized mineral substances of different kinds or qualities from each other. (*Communicated by Henry Eberhard Roeder.*)	2142	28th Aug. 1861	Benjamin Browne.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
Railway, ship and other signals - - - (*Exhausting apparatus.*)	2174	31st Aug. 1861	Charles Pemberton.
Machinery or apparatus for producing a strong blast or current of air - - -	2195	3rd Sept. 1861	Edmund Suckow. Edward Habel.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines. (*For forcing air into tanks.*)	2215	5th Sept. 1861	Thomas Scott.
Improvements in compressing and rarefying atmospheric air, with machinery for applying the same to obtain a motive-power, part of which is applicable for cooking purposes.	2278	13th Sept. 1861	Richard Fell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in thrashing machines, and in raising and stacking straw and other agricultural produce. (*Elevating by a partial vacuum.*)	2313	16th Sept. 1861	Weston Tuxford.
Apparatus for filtering or purifying water or other liquids. (*Communicated by Mr. Jean Antoine Victor Burq.*)	2323	18th Sept. 1861	George White.
Washing and scouring wools by the introduction of air into the water, using an aëriform washing apparatus.	2371	23rd Sept. 1861	Hippolyte Plantrou, junior.
Construction of organs - - - -	2508	8th Oct. 1861	Henry Willis.
Batteries for the purposes of war - - - (*Discharging missiles by compressed air.*)	2514	9th Oct. 1861	Robert William Sievier.
Apparatuses for generating, superheating, and condensing steam - - - - -	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Improvements in granaries and the apparatus connected therewith.	2704	29th Oct. 1861	Joseph Martin.
Apparatus for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
The application of electricity in refining cast iron for the purpose of converting it into wrought iron or steel with or without the addition of other agents. (*Introducing gas into melted metal.*) (*Communicated by Francois Alphonse Adéodat Dufournel.*)	2850	13th Nov. 1861	William Clark.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun.	2867	14th Nov. 1861	George Bridge.
Manufacture of iron and steel - - -	2900	18th Nov. 1861	George Parry.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors -	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Improvements in the manufacture of coke, and in apparatus connected therewith. - - - (*Introducing air into the coke heap.*)	2913	20th Nov. 1861	Edward Fisher Smith. Thomas Swinnerton.
Apparatus for raising and supplying water to boilers and for other purposes - - - (*Keeping up a vacuum.*)	2933	22nd Nov. 1861	Renil de Clercq. Emile Chazelles.
Apparatus and machinery for working coal and other mines - - - - - -	2975	26th Nov. 1861	William Firth. Robert Ridley.
Machinery and apparatus for working coal and other mines - - - - - -	2977	26th Nov. 1861	George Edmund Donisthorpe. William Firth. Robert Ridley.
Improvements in the treatment of ores for the manufacture of sulphuric acid and in apparatus connected therewith, which apparatus is also applicable to the treatment of ores for separating metals therefrom.	3002	28th Nov. 1861	Peter Spence.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLIES, &c.—continued.			
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either receiving or traversing, and also the employment of aluminium or its alloys in the manufacture of the same - - - -	2055	6th Dec. 1860	James Bailey. William Henry Bailey.
Electric telegraphs - - - - - - *(Vacuum conductors*	2075	8th Dec. 1860	Cromwell Fleetwood Varley.
Blowers or apparatuses for supplying steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. *(Aërhydric blower.* *(Communicated by Felix Alexandre Yerrel de Beauregard.*	2141	13th Dec. 1860	Richard Archibald Brooman.
Treating linseed oil - - - - - -	2082	8th Dec. 1860	John Fardred.
Apparatus for desiccating grain, seeds and other articles.	2178	18th Dec. 1860	James Bennehr.
Improvements in apparatus for raising or forcing water or other fluids. *(Communicated by Mr. Edward Bruce Boughton Barker.)*	2256	31st Dec. 1860	George Henry Birkbeck.
IV.—Ventilation; Supplying and Purifying Air for Buildings, Mines, Ships, Carriages, &c.			
Apparatus for ventilating - - - - - *Buildings, ships, carriages.*	6	2nd Jan. 1861	William Cooke.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - - *Valves for ventilating mines.*	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
A combined heating and ventilating pipe to be made elliptically or otherwise.	53	9th Jan. 1861	William Taylor.
Chimney and ventilating cowls - - - -	133	17th Jan. 1861	George Lewingdon.
Improved apparatus for exhausting and compressing air and producing air blasts. *(Communicated by Frederick William Pertz.)*	224	29th Jan. 1861	William Edward Newton.
A new process for impregnating the atmosphere with perfuming or purifying vapours.	378	14th Feb. 1861	Eugene Rimmel.
Hats or coverings for the head - - - -	496	26th Feb. 1861	Louis Sideman. Samuel Phillips.
Chimneys - - - - - - - - *(Communicated by Mr. Desanges.)*	503	27th Feb. 1861	Charles Stevens.
An improved apparatus for drawing off smoke and gases.	540	2nd March 1861	Jacques Bernard Chanssenot.
Mode of forming ventilators - - - -	630	14th March 1861	Charles Gammon.
Improvements in or connected with ships or vessels	782	30th March 1861	William Simons.
Improvements in the method of and apparatus for preventing the deterioration of grain when deposited in the holds of vessels for shipment, and also in the application of the said method and apparatus to vessels engaged in shipping grain from one port to another.	867	9th April 1861	Henry Griffiths Prosser.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Apparatus for ventilating forges and other overheated workshops.	986	20th April 1861	Aaron Smith.
Ventilating various articles of wearing-apparel -	1143	6th May 1861	Georges Coles. James Archibald Jaques. John Americus Fanshawe. Thomas Galpin.
Construction, ventilation and propulsion of life boats. (*Communicated by John Theodore Scholl.*)	1205	11th May 1861	William Clark.
Apparatus for ventilating dwelling rooms and other places and for removing foul or noxious air therefrom.	1308	23rd May 1861	William Tebbutt.
Mode of and apparatus for warming and ventilating rooms and buildings.	1314	24th May 1861	Charles Batty.
Machinery for tunnelling and driving galleries through rock and other strata.	1386	3rd June 1861	Herbert Newton Penrice.
Apparatus for creating or increasing air drafts in flues or other channels for ventilation and other purposes.	1435	6th June 1861	Edward Hewitt.
Improvements in arranging sizing-houses, brew-houses, dye houses and other houses and chambers, to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Apparatus for ventilating furnaces, drying rooms, stables, kitchens and other places.	1586	20th June 1861	Michel François Antoine Thibault de Menonville.
Window-frames and blinds - - -	1627	25th June 1861	John Brown.
Ventilating-apparatus - - - -	1629	26th June 1861	Stephen Wenton.
Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
Stacking corn and other crops - - -	1786	16th July 1861	John Goucher.
Certain improvements in boots and shoes or other coverings for the feet.	1828	20th July 1861	Moses Gilbert.
Arrangements in buildings and ships with a view to the extinguishment of accidental fire therein and also the ventilation thereof.	1841	22nd July 1861	Joseph Beattie.
Apparatus for ventilating - - - -	2026	14th Aug. 1861	William Wilds.
Ventilating - - - - - -	2055	19th Aug. 1861	John Robb.
Improvements in the construction of conservatories, orchard houses and other horticultural erections, which improvements are also applicable to the covering of areas such as are used for drill sheds, markets, railway sheds, colonists' and army huts and many other similar purposes.	2117	24th Aug. 1861	James Cranston.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in glazing horticultural buildings, the roofs of railway stations and other erections.	2235	6th Sept. 1861	Thomas Goode Messenger.
Improvements in the construction of and appliances to steam ships or other vessels - - - - (*Ventilating.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Improvements in gaseliers and in ventilating apparatus connected therewith.	2361	21st Sept. 1861	Louis Rudolph Bodmer.
Chimney hoods and ventilators - - -	2436	30th Sept. 1861	Charles Hill Pennycook.
An improved chimney top, cap or cowl for the prevention of the descent of sooty exhalations, curing of smoky chimneys, and ventilation of apartments.	2518	9th Oct. 1861	James Walker.
Hats and caps - - - - -	2548	12th Oct. 1861	Samuel Ratcliffe Carrington.
Ventilating rooms and buildings - - -	2615	19th Oct. 1861	John Wainwright.
Manufacture of elastic fabrics - - - - (*Ventilating.*)	2779	5th Nov. 1861	Edward Bowra.
Improvements in the construction of carriages and vehicles, and in the means of ventilating the same, this part of the invention being applicable also to windows generally and other such openings.	2838	12th Nov. 1861	William Cooke.
Apparatus for sounding alarums and actuating ventilators.	2872	14th Nov. 1861	George Hawksley.
Ventilators for railway and other carriages and for other similar purposes.	2874	15th Nov. 1861	Charles Henry Minchin.
Apparatus for ventilating coal or other mines or other underground excavation.	2875	15th Nov. 1861	John Nixon.
An improved Cornish or other steam-boiler with smoke consumer and condenser, being also applicable for ventilation.	2982	27th Nov. 1861	George Rydill.
Ventilators - - - - - -	2985	27th Nov. 1861	Amos Whibley. Thomas Lumley.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling, and agricultural purposes. (*Using centrifugal force for the ventilation.*)	3118	12th Dec. 1861	Augustus Tonnar.
Improvements in ventilators or valves for regulating the passage of air or other fluids whether of a gaseous or liquid form.	3264	31st Dec. 1861	Neil McHaffie.
ALKALIES; ALKALINE AND EARTHY SALTS; MICA; IODINE; SALTS OF ALUMINA.			
Improvements in the manufacture of sulphurous acid, sulphites and bi-sulphites, and sulphuric acid, and in the apparatus employed therein, and in the application of one of the products of such manufacture to the bleaching of textile, animal and vegetable substances.	209	26th Jan. 1861	Charles Achille Drevet.
Treatment of soda waste and sulphurets - -	330	9th Feb. 1861	John Louis Jullion.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ALKALIES, &c.—*continued.*			
Preparation of alkaline and earthy cyanides (*Communicated by Mr. Louis Joseph Frederic Margueritte and Mr. Alfred Laloüel de Sourdeval.*)	408	19th Feb. 1861	William Clark.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan,") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining ammonia.*)	650	15th March 1861	William Lorberg.
Method of obtaining ammoniacal salts and other valuable products from liquors or substances containing ammonia and for utilizing the residuum	894	11th April 1861	Charles Noyes Kernot. Martin Diederich Rucker.
Improvements in the manufacture of nitric acid and caustic soda, which are also applicable to the obtaining of other chemical products.	932	16th April 1861	James Drysdale Malcolm.
Manufacturing oxygen gas and obtaining certain other products.	983	20th April 1861	James Webster.
A mode or method of collecting ammonia from the waste gases arising from the combustion of coal.	1115	3rd May 1861	James Alexander Manning.
An improved treatment of natural phosphate of lime for several purposes.	1200	11th May 1861	Auguste César Achille Gérard de Melcy.
The treatment of ammoniacal waters resulting from putrified urines and from products extracted by the distillation of coal. (*Communicated by Messrs. Louis Joseph Frédéric Margueritte and Alfred Laloüel de Sourdeval.*)	1217	13th May 1861	William Clark.
Manufacturing alkaline carbonates (*Communicated by Joseph Mowbray Laming.*)	1367	31st May 1861	Richard Laming.
Obtaining products from sea weeds (*Potash, iodine, ammonia, sal-ammoniac, &c.*)	1411	4th June 1861	Edward Charles Stanford.
Manufacture of sulphate of alumina	1448	7th June 1861	Alexander Angus Croll.
Improvements for economising fuel in evaporating and concentrating, chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith. (*Manufacture of alkalies.*)	1462	8th June 1861	Joseph Roman.
Manufacture of letters, designs and other articles of mica variously coloured or metallized. (*Communicated by Messrs. Thomas Lamie-Murray and Holthausen, Brothers.*)	1549	17th June 1861	William Clark.
Treatment of sea weeds for the purpose of obtaining therefrom certain valuable products. (*Ammonia, iodine, &c.*)	1611	22nd June 1861	James Smith McArdle.
Treating tank refuse or soda waste (*See* "SULPHUR.")	1704	4th July 1861	Thomas Wilson. James Graham Tatters.
Obtaining products from alkali waste and gas lime refuse. (*Hyposulphite of lime or of soda.*)	1726	6th July 1861	Alfred Noble.
An improved process for the treatment of silicates of metallic and non-metallic bases and other siliceous compounds as slags, scoriæ and such like, in order to recover the said bases, and also in the production of fluo-silicic and silicic acids.	1734	9th July 1861	Thomas Cobley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ALKALIES, &c.—*continued.*			
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts, and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same.	1772	15th July 1861	Thomas Cobley.
Improvements in the manufacture of soda, carbonate of soda, and hydro-chloric acid, and in apparatus connected therewith.	1790	16th July 1861	Joseph Pierre Gillard.
An improvement in treating bones and the manufacture of the products thereof. (*Earthy phosphates.*)	2032	15th Aug. 1861	John Cowdery Martin.
An improved manufacture of manure - - (*And ammonia and compounds.*)	2159	30th Aug. 1861	Alexandre Jaille.
Improvements in treating yeast and in the manufacture of ammoniacal salts, and a substitute for animal charcoal.	2196	3rd Sept. 1861	Patrick Robertson.
Improvements in the material and preparation of the material and apparatus for making potash, pearlash and caustic potash of commerce.	2238	7th Sept. 1861	Nicholas Doran Proby Maillard.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames, and other ornamental and useful purposes. (*Communicated by Mr. Frederic Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Batteries for obtaining electric currents and the products therefrom - - - - - (*Obtaining sulphate of soda, &c.*)	2298	14th Sept. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Application of mica to ornamental and other purposes. (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2308	16th Sept. 1861	William Clark.
Improvements in the mode of obtaining certain chemical substances and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - - (*Obtaining alkaline salts.*)	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
The preparation and application of certain new hemostatic and antiseptic agents. (*Alkaline phenates.*)	2441	30th Sept. 1861	Pierre Alexis Francisse Bobœuf.
Method of obtaining ammoniacal salts and other valuable products from liquors or substances containing ammonia and for utilizing the residuum - - - - - - -	2540	11th Oct. 1861	Charles Noyes Kernot. Martin Diederich Rucker.
Manufacturing oxygen gas and obtaining certain other products. (*Soda; nitrogenous compounds.*)	2607	19th Oct. 1861	James Webster.
Manufacture of soda and sulphuric acid.	2695	28th Oct. 1861	Emory McClintock.
Obtaining alkaline phosphates - - - (*Communicated by Edouard Aubertin.*)	2819	9th Nov. 1861	Richard Archibald Brooman.
Treating certain natural saline compounds to fit them for agricultural use and in order to obtain potash and other salts - - - - -	2871	14th Nov. 1861	Frederick Robert Hughes. Thomas Richardson.
Manufacture of potash and salts of potash - -	3043	4th Dec. 1861	William Henry Balmain.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ALKALIES, &c.—*continued.*			
Improvements in revivifying animal black or charcoal, in collecting ammoniacal gases generated in the revivification, in the clarification of saccharine liquors, and in apparatus employed in the revivification of the black, and in the filtering of saccharine liquors. (*Communicated by Absolon Hippolyte Leplay and Jules François Joseph Cuisinier.*)	3275	31st Dec. 1861	Richard Archibald Brooman.
ANCHORS; WORKING ANCHORS.			
Anchors	37	5th Jan. 1861	John Isaiah Grylls.
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore.	492	26th Feb. 1861	William Henry James.
Anchors	699	20th March 1861	George Peacock.
Machinery for raising anchors, stopping cables, preventing cables from riding and other like purposes	1020	24th April 1861	George Daniel Davis. Joseph Davis.
Machinery for steam vessels (*Raising and working anchors.*)	1118	3rd May 1861	Edward Humphrys.
Anchors	1372	1st June 1861	Robert Wilson.
Machinery applicable to steam cultivation (*Travelling anchor.*)	1483	10th June 1861	Robert Romaine.
An improved anchor	2330	18th Sept. 1861	George Ferry.
Construction and form of anchors	2349	20th Sept. 1861	Thomas Murray Gladstone.
AXLES, SHAFTS, BEARINGS, JOURNALS, AXLE-BOXES, PACKINGS FOR AXLES; LUBRICATING AXLES, &c.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus (*Bearings; packing for axles.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
An improved grease for lubricating the frictional surfaces of machinery.	58	9th Jan. 1861	Claude Nicolas Leroy.
Improvements in the construction of axle-boxes for the wheels of vehicles used on railways, applicable also to the wheels of vehicles used on common roads for the purpose of reducing friction. (*Communicated by Charles Jean de Mat.*)	153	19th Jan. 1861	James Bateson Rickards.
An improved lubricating grease or paste for railway wheels and all kinds of machinery.	158	21st Jan. 1861	Francis William Perrott.
An improved apparatus for lubricating the frictional surfaces of machinery.	266	1st Feb. 1861	Robert Kunstmann.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Construction and arrangement of bearings and grease boxes for shafts and axles, applicable also to the bosses of wheels. (*Communicated by Jose Galligos.*)	345	11th Feb. 1861	John Henry Johnson.
A new and useful bearing surface for all kinds of journal and axle boxes.	377	14th Feb. 1861	Patrick Sarsfield Devlan.
Construction of the bearings and other rubbing surfaces of machinery. (*Communicated by S. M. Saunders.*)	411	19th Feb. 1861	John Louis Jullion.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given - -	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Apparatus for lubricating the moving parts of machinery.	608	12th March 1861	Auguste Aerts.
Moulding and shaping metals - - - (*Footstep bearings.*)	639	14th March 1861	James Hunter.
Ploughs - - - - - - (*Communicated by Mr. Hautavoine.*)	649	15th March 1861	George Dixon.
Machinery for cutting or working in wood - (*Bearings of band saws.*)	714	21st March 1861	Thomas Greenwood. Arthur Kinder.
Improvements in carriage and other axles, and also in shafts and other parts of machinery exposed to the action of the atmosphere.	838	5th April 1861	William Richardson.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	872	9th April 1861	James Higgins. Thomas Schofield Whitworth.
Machinery for cleansing cotton - - -	899	11th April 1861	John Macmillan Dunlop.
Improvements in boxes and bearings for lubricating the axles and journals of wheels, also applicable to lubricating the shafts or axles of machinery in general.	910	13th April 1861	Albert François Delannoy.
Certain improvements in machinery for spinning cotton and other fibrous materials - - (*Bolster bearings.*)	1001	23rd April 1861	Richard Shaw. William Snodgrass.
Improvements in apparatus used for retarding and stopping railway carriages, and in the construction of railway axles.	1007	23rd April 1861	John Marshall.
Improved apparatus for transmitting motion to machinery to be driven by horse power.	1027	24th April 1861	Edward Hammond Bentall.
Preventing the fracture of metals from crystallization. (*Axles, bearings, butts, &c.*)	1055	26th April 1861	John Marshall.
Carriage axles and axle boxes - - -	1058	26th April 1861	John Watkins.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.
Lubricating-apparatus for lubricating the journals and bearings of shafts and other frictional surfaces of machinery.	1170	8th May 1861	Henry Swan.
Certain improvements in machinery for planing lumber. (*Communicated by Mr. Henry Dawes Stover.*)	1208	11th May 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Ploughs and other agricultural implements -	1221	13th May 1861	Richard Hornsby, jun.
Machinery or apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
An improved method of lubricating carriage axles -	1312	23rd May 1861	Ebenezer Partridge.
Improvements in the manufacture of portable or traction steam-engines, and in apparatus for cutting joints, heads of connecting rods and other articles - - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improvements in axle-boxes and in lubricating the parts therein.	1421	6th June 1861	Léon Joseph Pomme de Mirimonde.
Applying oil or lubricating fluid to locomotive and other axletrees.	1524	13th June 1861	Bewicke Blackburn.
Machinery or apparatus for spinning, doubling and winding cotton and other fibrous materials	1568	18th June 1861	Thomas Webb. James Craig.
Certain improvements in machines for planing, boring and turning - - - - - (*Turning shafts.*)	1584	20th June 1861	James Fletcher. John William Fuller.
Compositions used for lubricating railway and other axles.	1703	4th July 1861	John Webster.
An improved frictionless bearing for gas-meters -	1739	9th July 1861	William Coulson Parkinson.
Lubricators for lubricating the various parts of machinery.	1830	20th July 1861	Robert Thatcher.
Machinery for lubricating parts of machinery and for other lubricating purposes.	1845	23rd July 1861	Nicolas Etienne Dumesnil.
Improvements in the construction of machines for mincing meat and other substances.	1953	6th Aug. 1861	Joseph Mac Morren.
Certain parts of machinery or apparatus used in preparing and spinning cotton or other fibrous materials. (*Steps.*)	2022	14th Aug. 1861	George James Wainwright.
Manufacture from steatite of journals, axle-boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles, and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Improvements in means or apparatus employed in washing, wringing, and mangling fabrics, and in the manufacture of part or parts of such apparatus - - - - - (*Forming axles of castors.*)	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Manufacture of crank shafts and crank axles and other similar articles - - - -	2227	6th Sept. 1861	William Allott. John Thelwall.
The application of a self-acting lubricator to corves and wagons.	2256	10th Sept. 1861	Thomas Smith Tyson.
Manufacture of axle-boxes and bushes - -	2369	23rd Sept. 1861	James Henry Duley.
Improved packing for engines and machinery -	2537	10th Oct. 1861	William Payne. John Burgum.
Machinery or apparatus for preparing grain for brewers. (*Bearings of crushing-rollers.*)	2710	29th Oct. 1861	Richard Gibbon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	2742	1st Nov. 1861	James Higgins. Thomas Schofield Whitworth.
Machinery or apparatus for the manufacture of sugar.	2754	2nd Nov. 1861	John Charles Wilson.
Improvements in machinery or apparatus for preparing, spinning or doubling cotton, silk and other fibrous materials, parts of which improvements are applicable for winding and other purposes. (*Swivel bolster.*)	2777	5th Nov. 1861	Richard Fethney.
Preparing and treating gutta-percha and india-rubber. (*Making packing.*)	2800	7th Nov. 1861	William Albert Shepard.
Construction of horse hoes - - - -	2802	8th Nov. 1861	Thomas Churchman Darby.
Apparatus for communicating between the passengers and the guard and engine driver of a railway train. (*Coupling for shafts.*)	2836	12th Nov. 1861	John Davidson.
Construction of vessels or apparatus for supplying lubricating matter to mechanism - - (*Journals of shafts.*)	2910	19th Nov. 1861	Frederick Luke Stott. Mark Tomlinson.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Certain improvements in machinery for carding and hackling flax, tow and other fibrous substances.	2954	25th Nov. 1861	George Lowry.
Blocks for hoisting - - - - - (*Bushings for sheaves.*)	3033	3rd Dec. 1861	Watson Duchemin.
Improvements in axle-boxes for railway carriages - (*Communicated by Davis Dotterer.*)	3261	31st Dec. 1861	Andrew Macnair.
For Bearing-Springs, *see* "SPRINGS."			
BAGS, SACKS, BASKETS AND FASTENINGS; NOSE-BAGS.			
The application of certain metals for the manufacture of "coaling," "swill" and similar baskets.	9	2nd Jan. 1861	Walter Morgan.
Pouches or receptacles for tobacco and other articles.	104	14th Jan. 1861	James Horsey.
An improved sporran or excursion bag especially suitable for volunteer riflemen and tourists.	192	24th Jan. 1861	Henry Dunn O'Halloran.
Manufacture of bodies for caps, hats, bonnets, baskets, bags and reticules, and other similar articles of light work.	325	9th Feb. 1861	Hermann Freystadt.
Slings or straps adapted for knapsacks, wallets, game bags and other such like uses.	357	12th Feb. 1861	Charles Prater.
An improvement in travelling bags and in frames for the same.	398	18th Feb. 1861	Frederick Schäfer.
Manufacture of pouches of india-rubber and india-rubber fabrics.	447	22nd Feb. 1861	Manuel Leopold Jonas Lavater.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BAGS, &c.—*continued.*			
Purses, bags, reticules, pocket-books, dressing-cases and other similar portable receptacles.	522	1st March 1861	John William Mott.
Improvements in travelling bags or cases and in fittings for the same, a part of which fittings is applicable to holding cigars and other like articles.	776	28th March 1861	James Sanderson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For baskets and basket work.*)	853	6th April 1861	Thomas Goulston Ghislin.
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For pouches, tourists' bags, &c.*)	869	9th April 1861	Charles Gill.
An improved nose-bag for horses - - - (*Communicated by Rose Marie Victoire Celestine Carbonino, Veuve de Favre.*)	1018	24th April 1861	Emile Lecot.
An improved fastening for purses, reticules, bags, belts, bands, pocket-books, cigar, writing and instrument cases, and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
An improved form of travelling bags - -	1514	13th June 1861	Charles Swan.
Travelling bags or cases - - - - -	1576	19th June 1861	Philipp Schäfer. Frederick Schäfer.
Means or apparatus for the manufacture of paper bags or envelopes. (*Communicated by Augustus Wolle.*)	1674	1st July 1861	Lewis Henry Spence.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass.	1753	11th July 1861	William Wilkinson.
An improved sackholder - - - - -	1937	5th Aug. 1861	Francis Richmond. Henry Chandler. William Barry Ritchie.
An improvement or improvements in the manufacture of certain descriptions of needles. (*For sack making.*)	2385	24th Sept. 1861	James Cottrill.
Means or apparatus for closing and securing mail bags and other packages. (*Communicated by Jean Rémy Boubilla.*)	2578	16th Oct. 1861	William Clark.
Pouches - - - - - - -	2909	19th Nov. 1861	Joseph Schloss.
Clasps or fastenings of purses, bags, portfolios, tobacco pouches and other like articles. (*Communicated by Mr. Joseph Schoenfeld.*)	2990	27th Nov. 1861	William Clark.
Improvements in the manufacture of nosebags and similar articles, and in apparatus connected with such manufacture. (*Communicated by Felix Loignon and Victor Casse.*)	3035	4th Dec. 1861	William Edward Gedge.
An improved method of utilizing bags, wrappers or other similar articles made of paper or other materials and in any form.	3192	20th Dec. 1861	Gustave Niay.
Improvements in looms for the manufacture of sacks, knapsacks, mattress cases and other goods. (*Communicated by Charles Hippolyte Tessier.*)	3215	24th Dec. 1861	Louis Rudolph Bodmer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BANNERS AND FLAGS.			
Treating materials for the manufacture of banners and flags.	1728	6th July 1861	George Tutill.
BATHS AND BASINS.			
Improvements in commodes or closets and in bathing, washing and other sanatory apparatus -	526	1st March 1861	George Smith. James Carrick.
Apparatus for administering medicated and voltaic baths. (*Communicated by Edmond Hiffelsheim, Gustave Hagen, and Paul Baudet.*)	567	5th March 1861	John Henry Johnson.
Apparatus for regulating the supply of water to water-closets, and for other purposes where an occasional or intermittent supply is required. (*To wash-hand basins.*)	572	6th March 1861	George Eskholme.
An improved apparatus for heating Turkish baths, public and private buildings, vineries, hot houses, and cooking ovens.	689	19th March 1861	John Adams Bolton.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells, and other vessels to contain chemical solutions. (*See* "PHOTOGRAPHY.")	852	6th April 1861	James Knight.
Apparatus to be used in shampooing - -	1743	9th July 1861	Joseph German. George Newton Browne.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.
Constructing and arranging warming-apparatus - (*For baths.*)	2391	25th Sept. 1861	Henry Purnell.
Improvements upon or additions to certain description of portable baths with the object of rendering them available for use as trunks or boxes.	3152	16th Dec. 1861	George Prince Vallas.
BAYONETS, SWORDS, AND DAGGERS, ALSO SHEATHS AND HANDLES.			
Improvements in the manufacture of blades for knives, razors, swords, bayonets and other similar articles, and in apparatus to be used in such manufacture. (*Communicated by André Nadal.*)	115	15th Jan. 1861	George Davies.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For sword, dagger, and stilletto handles, bayonet sheaths, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BAYONETS, &c.—*continued.*			
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For sword sheaths.*)	869	9th April 1861	Charles Gill.
New or improved machinery for grinding and polishing swords, matchets and knives, which said machinery may also be employed for grinding gun barrels and files, and for other like purposes.	921	15th April 1861	Edgar Brooks.
Means of fastening or securing the handles of table knives and forks, daggers and other similar articles.	2355	20th Sept. 1861	James Burnand.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering swords, bayonets, &c.*)	2664	24th Oct. 1861	James Chesterman.
An improvement or improvements in the manufacture of bayonets.	2774	5th Nov. 1861	Edgar Brooks.
An improvement or improvements in the manufacture of bayonets and in apparatus or machinery to be employed therein.	2856	13th Nov. 1861	Joseph Vaughan.
Means or apparatus for rolling metals - - (*Giving form to bayonets, sword blades, &c.*)	2898	18th Nov. 1861	Guillaume Prodon-Bonneton. Marthe Guillaume Prodon.
Improvements in fire-arms and in adapting bayonets or cutting or piercing weapons thereto. (*Communicated by Mathieu Louis Michel Descoutures.*)	3251	28th Dec. 1861	Michael Henry.
BELLS; RINGING BELLS.			
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces and for other purposes.	884	10th April 1861	John Caw, junior.
Apparatus for sounding bells on lighthouses, floating lights, buoys and like floating bodies.	1220	13th May 1861	Charles Oliver.
Apparatus for striking bells - - -	1318	24th May 1861	George Herbert.
Machinery for sounding fog bells and other bells -	1678	2nd July 1861	James Potts.
Construction of bells - - - -	1721	6th July 1861	Thomas Smith.
Improvements in the construction of parts of electric telegraph bell apparatus, and in apparatus used in making the same. (*Communicated by Mr. Pierre Désiré Prud'homme.*)	2991	27th Nov. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BANNERS AND FLAGS.			
Treating materials for the manufacture of banners and flags.	1728	6th July 1861	George Tutill.
BATHS AND BASINS.			
Improvements in commodes or closets and in bathing, washing and other sanatory apparatus -	526	1st March 1861	George Smith. James Carrick.
Apparatus for administering medicated and voltaic baths. (*Communicated by Edmond Hiffelsheim, Gustave Hagen, and Paul Baudet.*)	567	5th March 1861	John Henry Johnson.
Apparatus for regulating the supply of water to water-closets, and for other purposes where an occasional or intermittent supply is required. (*To wash-hand basins.*)	572	6th March 1861	George Eskholme.
An improved apparatus for heating Turkish baths, public and private buildings, vineries, hot houses, and cooking ovens.	689	19th March 1861	John Adams Bolton.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells, and other vessels to contain chemical solutions. (*See* "PHOTOGRAPHY.")	852	6th April 1861	James Knight.
Apparatus to be used in shampooing - -	1743	9th July 1861	Joseph German. George Newton Browne.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.
Constructing and arranging warming-apparatus - (*For baths.*)	2391	25th Sept. 1861	Henry Purnell.
Improvements upon or additions to certain description of portable baths with the object of rendering them available for use as trunks or boxes.	3152	16th Dec. 1861	George Prince Vallas.
BAYONETS, SWORDS, AND DAGGERS, ALSO SHEATHS AND HANDLES.			
Improvements in the manufacture of blades for knives, razors, swords, bayonets and other similar articles, and in apparatus to be used in such manufacture. (*Communicated by André Nadal.*)	115	15th Jan. 1861	George Davies.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For sword, dagger, and stilletto handles, bayonet sheaths, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.

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Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For sword sheaths.*)	869	9th April 1861	Charles Gill.
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Improvements in the construction of parts of electric telegraph bell apparatus, and in apparatus used in making the same. (*Communicated by Mr. Pierre Désiré Prud'homme.*)	2991	27th Nov. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BELTS, BANDS, BRACES, GARTERS.			
Coating, coloring and glazing or finishing laces, bands, straps, belts and other similar articles, and in the machinery or apparatus employed therein.	298	5th Feb. 1861	William Paton.
Slings or straps adapted for knapsacks, wallets, game bags and other such like uses.	357	12th Feb. 1861	Charles Prater.
A clasp or fastener for belts, bands or straps, or for improvements contained therein.	405	19th Feb. 1861	John Henry Brierley.
Life belts and swimming belts - - - (*Communicated by Messrs. Torrilhon, Verdier and Company.*)	601	11th March 1861	John Henry Johnson.
An improvement or improvements in the manufacture of braces.	774	28th March 1861	John Clark Keen.
A new or improved fastening which said fastening is applicable to the fastening of windows and also to the fastening of belts, garters, braces and other articles of dress - - - - -	871	9th April 1861	William Westbury. Edward Cooke.
New or improved fastenings for fastening bands and belts and articles of dress, and for such other purposes as the same are or may be applicable to.	878	10th April 1861	Thomas Aldridge Weston.
Medicated belts or bands for the alleviation of pain in or prevention of cholera, and for the prevention or cure of pulmonary or other complaints.	937	17th April 1861	William Jenkins.
An improvement in braces - - - -	970	19th April 1861	Frederick John Jones.
An improvement in clasps or buckles - - (*For belts, garters and braces.*)	1319	24th May 1861	John Paterson.
An improved fastening for purses, reticules, bags, belts, bands, pocket books, cigar, writing and instrument cases, and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
Improvements in fastenings for wearing-apparel and in the application thereof.	1926	3rd Aug. 1861	Jane Cross.
Improvements in the construction of trusses and bandages for hernia, and of hypo-gastric girdles or belts - - - - - - -	1991	9th Aug. 1861	Adrien Ferdinand Benjamin Falgas.
Fastenings for gloves, belts and other articles -	2151	29th Aug. 1861	Victor Alexandre Janvier.
Clasps or fastenings for garments, belts, harness and like articles.	2177	31st Aug. 1861	John Jones.
A reversible back supporting nursing belt - -	2413	27th Sept. 1861	Richard Franklin. George Bacchus.
An improvement or improvements in the manufacture of certain descriptions of brace webs known as india-rubber webs.	2602	18th Oct. 1861	Benjamin Taylor.
Fastenings for gloves, belts and other articles -	2610	19th Oct. 1861	Théophile Lepeinteur.
Machinery or apparatus for the manufacture of elastic surgical stockings, socks, knee caps, belts, bands or other articles.	2709	29th Oct. 1861	William Savile.
A new or improved back or chest protecting brace or braces.	2752	2nd Nov. 1861	James Smith Brooks.
Manufacture of elastic fabrics. (*Springs for belts, braces, &c.*)	2779	5th Nov. 1861	Edward Bowra.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BILLIARD TABLES AND MARKERS, BAGATELLE BOARDS.			
An improved table or article of furniture - - (*Fitted as a bagatelle board.*)	40	5th Jan. 1861	William Luck.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For billiard tables.*)	482	25th Feb. 1861	George Clark.
An improved fabric for covering billiard and bagatelle tables and other similar uses. (*Communicated by Jules Cordier.*)	700	20th March 1861	William Edward Gedge.
An improved process for manufacturing india-rubber pipes. (*And billiard table bands.*)	981	20th April 1861	Jean Baptiste Jules Noirot.
Billiard tables - - - - - -	1067	27th April 1861	George Marvin Story. George William Edwards.
Billiard and bagatelle tables - - - -	1260	17th May 1861	Samuel Pitts.
An improved billiard rest - - - -	2690	26th Oct. 1861	Robert Benjamin Greenwood.
Means or apparatus for indicating and registering the "score" for billiards and other games.	3008	29th Nov. 1861	Louis Henry Christian Jacob Carle.
BIRD CAGES.			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making bird-cages.*)	853	6th April 1861	Thomas Goulston Ghislin.
Construction of cages for singing and other birds or animals.	1137	6th May 1861	William Abbott.
BLEACHING AND DECOLOURISING.			
Certain improved apparatus for preventing steam-boiler explosions and for decolorizing the gaseous products of furnace fuel in a state of combustion.	190	24th Jan. 1861	Frederick George Mulholland.
Improvements in the manufacture of sulphurous acid, sulphites and bi-sulphites, and sulphuric acid, and in the apparatus employed therein, and in the application of one of the products of such manufacture to the bleaching of textile, animal and vegetable substances.	209	26th Jan. 1861	Charles Achille Drevet.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BLEACHING, &c.—*continued.*			
Improvements in the manufacture of oils and in treating oils and fats for purposes of purifying, decolorizing, clarifying and disinfecting them.	488	25th Feb. 1861	Charles Corroy-Regnault.
Washing, wringing and mangling machines, applicable also for dyeing or bleaching purposes, to be called:—"The Nottingham washing machine" - - - - - -	787	30th March 1861	George Barton. Thomas Soar.
An improved mode of bleaching and refining oils and other fatty substances. (*Communicated by Ferdinand Feist Mayer.*)	988	20th April 1861	Alfred Vincent Newton.
Obtaining fibrous materials and paper pulp from various trees, shrubs and plants.	1216	13th May 1861	Antoine Constant Vautier.
An improved method of bleaching coloured rags and vegetable fibres.	1543	17th June 1861	Thomas Gray.
Washing, wringing and mangling machines -	1699	4th July 1861	Richard Mills.
Improvements in the production of paper pulp and in bleaching paper pulp and certain fabrics, also an apparatus for cutting wood applicable for carrying out part of the invention. (*Communicated by Marie Anne Pelagie Veronique Cauzique, formerly le Roux.*)	1822	19th July 1861	Michael Henry.
Improvements in bleaching and clarifying saccharine matters and in apparatus for the same. (*Communicated by Messrs. Edouard Théophile de Gemini and Edmond Oswald de Gemini.*)	1956	6th Aug. 1861	William Clark.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Fryatt.*)	2129	26th Aug. 1861	William Edward Newton.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*For bleaching-houses.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
An improved mode or method of bleaching palm oil	2383	24th Sept. 1861	Charles Watt. John Watt. Thomas Snaith Haviside.
Improvements in bleaching cotton and other textile fabrics or materials, and in the apparatus employed in such process. (*Communicated by Edouard Turpault.*)	2837	12th Nov. 1861	George Davies.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Improvements in the preparation and treatment of vegetable fibres the better to adapt them for combining, working up and dyeing with different fibres such as silk, wool, cotton and others, and in apparatus used in such treatment or preparation.	3046	4th Dec. 1861	Charles Samuel Henry Hartog.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOBBINS AND COP-TUBES.			
Certain improvements in "cop tubes" and in machinery or apparatus employed in the manufacture thereof - - - - -	512	28th Feb. 1861	Joseph Bayley. John Quarmby. Edward Burns.
Improvements in cop tubes and partial tubes, and in apparatus for holding them on to the spindles of mules for spinning and doubling, also improvements in the construction of the skewers for shuttles and winding machines.	1282	20th May 1861	John Sidebottom.
Improvements relating to cop tubes - -	1427	6th June 1861	Thomas Hamilton. James Hamilton.
Treating, spinning and doubling yarns - -	1434	6th June 1861	Samuel Cunliffe Lister. James Warburton.
Reels or spools - - - - - -	1597	21st June 1861	John Skirrow Wright.
An improved cop tube and cover for rollers used in spinning, and in apparatus for putting the tubes on the spindles.	1950	6th Aug. 1861	Rudolph Wappenstein.
Certain improvements in machinery for making partial tubes for the spindles of spinning and other machines.	2685	26th Oct. 1861	John Sidebottom.
Cop tubes - - - - - - - -	2791	7th Nov. 1861	Simon Cockett.
Improvements in paper tubes and in the means or machinery for making or manufacturing the same.	3038	4th Dec. 1861	Charles Crabtree.
Improvements in the manufacture of driving straps or bands, the backs of wire cards and cop tubes.	3224	24th Dec. 1861	John Bland Wood.
BONES; ARTIFICIAL BONE, IVORY, HORN, WHALEBONE, SHELL AND CORAL.			
An improvement or improvements in ornamenting surfaces. (*To resemble tortoiseshell.*)	575	7th March 1861	William Edward Wiley.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*A substitute for horn, whalebone, ivory, coral, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
An improvement in treating bones and the manufacture of the products thereof.	2032	15th Aug. 1861	John Cowdery Martin.
An improved manufacture of manure - - (*And a product like shell.*)	2159	30th Aug. 1861	Alexandre Jaille.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Treating bones and gelatine - - -	2677	25th Oct. 1861	Thomas Richardson. Robert Irvine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOOKS, ALBUMS, PORTFOLIOS, BOOK COVERS, BOOK BINDING AND ORNAMENTING.			
Improvements in the manufacture and preparation of paper and in the method of printing and otherwise preparing the same.	313	7th Feb. 1861	James Edward Boyd.
Improvements in albums or books for holding photographs, engravings and other representations, and in binding together sheets or pieces of pasteboard or such like stiff materials, especially for the purpose of forming such albums or books. (*Communicated by Paul Luz.*)	469	23rd Feb. 1861	Ludwig Pohl.
Purses, bags, reticules, pocket-books, dressing-cases and other similar portable receptacles.	522	1st March 1861	John William Mott.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, junctus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For book covers, portfolios, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Apparatuses for turning over leaves or sheets of music and other like sheets. (*Communicated by Louis Etienne Stanislas Petit.*)	864	8th April 1861	Richard Archibald Brooman.
Sizing or preparing paper and textile fabrics in order to render them waterproof and to increase the strength thereof. (*Paper for bookbinding.*) (*Communicated by Leon Bertin and Pierre Carteron.*)	895	11th April 1861	Richard Archibald Brooman.
Imitation of gold and silver embroidery - - (*To apply to book-binding, portfolios, &c.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Fastenings for porte-monnaies, pocket-books, cigar-cases and similar articles. (*Communicated by Siegmund Rothschild.*)	1176	9th May 1861	Ferdinand Stern.
Improvements in the bindings or coverings of books and portfolios, which improvements may be applied to dispatch-boxes, ladies' work-boxes, office boxes and such like articles.	1271	18th May 1861	Samuel Leigh Sotheby.
An improved fastening for purses, reticules, bags, belts, bands, pocket-books, cigar, writing and instrument cases, and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
"Photographic albums" - - -	1756	12th July 1861	Thomas John Smith.
An improvement in clasps for books, portfolios, desks and other similar articles.	2428	28th Sept. 1861	Thomas Potts.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard wood and compounds of india-rubber or gutta-percha have hitherto been employed. (*For bookcovers.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOOKS, &c.—*continued.*			
Photograph albums - - - - - (*Communicated by Claude Mamès Augustin Marion.*)	2739	1st Nov. 1861	William Clark.
An improved combined book marker and paper cutter.	2748	1st Nov. 1861	Andrew Smith.
Ornamenting the covers of photographic albums, books, writing-cases and other like articles.	2781	5th Nov. 1861	John Peter Bourquin.
Albums for containing photographic and other pictures. (*Communicated by Auguste Marion.*)	2860	13th Nov. 1861	Richard Archibald Brooman.
Clasps or fastenings of purses, bags, portfolios, tobacco pouches and other like articles. (*Communicated by Mr. Joseph Schoenfeld.*)	2990	27th Nov. 1861	William Clark.
Improvements in albums or books for containing and showing photographic and other pictures, and in slides for the same. (*Communicated by Henry Strauss.*)	3044	4th Dec. 1861	Richard Archibald Brooman.
An improvement in forming the leaves of albums and books for containing photographic portraits and views. (*Communicated by Simeon Schloss.*)	3105	11th Dec. 1861	Joseph Schloss.
BOOTS, SHOES, LEGGINGS, CLOGS, SKATES; CLEANING BOOTS; BLACKING; LASTS.			
Machines for forming the heels of boots and shoes - (*Communicated by E. T. Green.*)	21	4th Jan. 1861	James Wright.
Manufacture of high boots, gaiters, knickerbockers, leggings and other such like articles.	164	21st Jan. 1861	Henry Hibling.
Manufacture of boots and shoes - - -	179	23rd Jan. 1861	William Westley.
Manufacture of lasts for boots and shoes - - (*Communicated by John C. Plumer, M.D.*)	248	30th Jan. 1861	George Tomlinson Bousfield.
Manufacture of boots and shoes - - - (*Communicated by John C. Plumer, M.D.*)	250	30th Jan. 1861	George Tomlinson Bousfield.
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith, to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Coating, coloring, and glazing or finishing laces, bands, straps, belts and other similar articles, and in the machinery or apparatus employed therein. (*Boot laces.*)	298	5th Feb. 1861	William Paton.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented. (*Soles and heels.*)	306	6th Feb. 1861	Thomas Gee.
Improvements in the manufacture of soles for clogs and other coverings for the feet, and in the machinery employed therein.	390	16th Feb. 1861	James Walker.
Improvements in the manufacture of boots, shoes and goloshes or other coverings for the feet, and in lasts or blocks for facilitating such manufacture.	417	20th Feb. 1861	Edward Wilkins.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boots, &c.—*continued.*			
Improved machinery for making boots and shoes - (*Communicated by George Chandler Prior.*)	483	25th Feb. 1861	Lucius Aurelius Bigelow.
Boots or other coverings for the feet - -	558	5th March 1861	John Money Carter.
Manufacture of boots particularly adapted for ladies' wear.	599	11th March 1861	Abraham Myers.
Improvements in the manufacture of boots, shoes and other coverings for the feet, and in tools for cutting the soles of such articles.	602	11th March 1861	John Thomas Hutchings.
Machinery or apparatus for stitching, uniting and ornamenting leather and other similar materials. (*Communicated by Elmer Townsend.*)	816	2nd April 1861	John Sickels.
Boots, shoes and other similar coverings for the feet.	914	13th April 1861	Charles Roberts.
Apparatus for cleaning boots and shoes, which are also applicable for cleaning knives, forks, plate and other articles.	1140	6th May 1861	George Henry Ellis.
Manufacture of gutta-percha and compounds thereof with other matters and substances. (*For boot and shoe soles.*)	1166	8th May 1861	John Rolfe Hunt.
A sandal slipper particularly adapted for use in Turkish and other baths.	1215	13th May 1861	Charles Frederick Pollard.
Manufacture of boots, shoes and other coverings for the feet, made of india-rubber, gutta-percha and like substances.	1335	28th May 1861	Egbert Reuben Burnham.
Manufacture of boots and shoes - - -	1398	4th June 1861	John Mackeness Stevenson.
An improved boot and shoe cleaning machine -	1412	5th June 1861	Martin Dodsworth. William Smith.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
Apparatus for the manufacture of boots and shoes -	1656	28th June 1861	Samuel Middleton. John Wright.
Improvements in the manufacture of heels, clog irons, horse-shoes, chain links and similar articles, and in apparatus therefor - - -	1689	3rd July 1861	James Bennie. William Moffat.
An improvement in the manufacture, construction and production of the heels and the uppers immediately above the heels of boots and shoes, for imparting durability and permanency of form to the said heels and uppers.	1768	15th July 1861	Theodor Woycke.
Certain improvements in boots and shoes or other coverings for the feet.	1828	20th July 1861	Moses Gilbert.
Method of fastening shoes, stays, gloves and other wearing apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
Manufacture of boots, shoes and other coverings for the feet. (*Communicated by Mr. Charles Warren Bryant.*)	1913	1st Aug. 1861	Alexander Powell.
Manufacture of horse shoes, boot heels, wheel tyres, rails, and safes - - - -	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
Preparation, application and manufacture of peat - (*For blacking.*)	2058	19th Aug. 1861	William Henry Smith.
An improved method of making boots and shoes or of parts thereof.	2173	31st Aug. 1861	William Southwood.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boots, &c.—*continued.*			
Forming or shaping the tops or upper parts of boots from woollen or mixed fabrics.	2182	31st Aug. 1861	Frederick Curtis.
Construction of boots and shoes - - - (*Communicated by Joseph Lacy Joyce and Edward Heaton.*)	2254	9th Sept. 1861	William Edward Newton.
Apparatus for cleaning and polishing boots, shoes and other coverings for the feet, partly applicable for cleaning plate and other articles of domestic use - - - - - - -	2300	16th Sept. 1861	Samuel Horsley. Edward Hobson Jones.
Manufacture of boots and shoes - - - (*Communicated by Henry Port.*)	2443	1st Oct. 1861	John Adams Knight.
Improvements in the manufacture of boots, shoes and other coverings for the feet, and in the machinery, apparatus and means connected with such manufacture.	2470	3rd Oct. 1861	Thomas Evans.
Fastenings for gloves, belts and other articles - (*Boots.*)	2610	19th Oct. 1861	Théophile Lepeinteur.
Goloshes - - - - - -	2639	22nd Oct. 1861	Henry May.
Sewing boots and shoes - - -	2642	23rd Oct. 1861	George Archer.
Preparation or treatment of skins and hides - (*For manufacture of boots, &c.*) (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.
Improved moulded india-rubber boots, shoes and other like articles. (*Communicated by Germain Burnet.*)	2737	1st Nov. 1861	David Lang.
An improved construction of skate - -	2768	4th Nov. 1861	George Horton.
Manufacture of elastic fabrics - - - (*Springs for boots.*)	2779	5th Nov. 1861	Edward Bowra.
Certain new and useful improvements in machinery for lasting and pegging shoes. (*Communicated by John Taggart.*)	2786	6th Nov. 1861	Herman D. Bradt.
An improved gaiter or covering for the leg -	2812	9th Nov. 1861	Mark Morgan.
Skates - - - - - - (*Communicated by Daniel Hartwell Shirley.*)	2841	12th Nov. 1861	William Edward Newton.
A new article of female wearing-apparel to be worn on the leg.	2857	13th Nov. 1861	Charles Edmund Wilson.
Pegs, nails or like fastenings for uniting the soles of boots and shoes and other substances.	2881	16th Nov. 1861	James Grint.
An improved boot or shoe with a wooden shank part and a flexible fore part to the sole.	2907	19th Nov. 1861	Benjamin Davenport Godfrey.
Machinery or apparatus for polishing shoe heels, toe plates and other articles.	2934	22nd Nov. 1861	George James Farmer.
Coverings for the feet and legs - - -	3061	6th Dec. 1861	Edwin Collier.
Screwing leather for the manufacture of shoes and for other purposes.	3134	13th Dec. 1861	Thomas Cabourg.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson Bousfield.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services. (*Blacking-boxes.*)	3250	28th Dec. 1861	Arthur Warner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOTTLES AND JARS; STOPPERS, CAPSULES, AND CORKS; STOPPERING, CLOSING AND OPENING BOTTLES AND JARS.			
An improved mode of stoppering or closing canisters, bottles or other vessels. (*Jars, &c.*)	96	12th Jan. 1861	Marie Virginie Boquet.
Machines for manufacturing corks, bungs, spiles and such like articles. (*Communicated by Paul Alexis Adolphe Dalverny.*)	155	19th Jan. 1861	Michael Henry.
An improvement in "bottle cleaners" - -	233	29th Jan. 1861	William Fredrick Fleming.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes in bodies.	334	9th Feb. 1861	Josiah George Jennings.
Manufacture of bottles and other vessels of glass -	354	12th Feb. 1861	James Bowron.
Stopping or closing bottles, vases, cans and similar articles whether of glass, metal or other material.	621	13th March 1861	Octave Saulay.
Glass stoppers applicable to feeding-bottles, retorts and other vessels.	692	19th March 1861	George Wilson.
An improved construction of vessel for containing aërated liquids. (*Communicated by Auguste Savareze.*)	942	17th April 1861	Gustave Leroy.
Apparatus for facilitating the imbibing of liquids - (*Applied to pocket flasks.*)	1126	4th May 1861	William Palmer.
An improved instrument for withdrawing corks from bottles when acting as stoppers therein.	1162	8th May 1861	Henry Martyn Nicholls.
Corking or stoppering bottles - - - (*Communicated by Messrs. Edmond Armand Louis D'Argy and Joseph Jean Pierre Leonce de Chalret du Rieu.*)	1211	13th May 1861	William Clark.
Improvements in apparatus for the manufacture of aërated waters and in vessels or receptacles for containing the same. (*Communicated by Jean Louis André and Philippe Ferdinand Guillot.*)	1231	14th May 1861	John Henry Johnson.
Certain improvements in the manufacture of corks and bungs.	1525	13th June 1861	Thomas Marshall Downing.
Apparatus for manufacturing and bottling aërated liquids. (*Communicated by Messrs. Auguste Mondollot and Jean Alphonse Mondollot, frères.*)	1671	1st July 1861	John Henry Johnson.
Improvements in inkstands, applicable to the stoppers of bottles.	1723	6th July 1861	James Ridsdale.
Apparatus for affixing or applying capsules to the necks of bottles and other vessels.	1725	6th July 1861	Charles Farrow.
An improved apparatus for or mode of stopping, plugging or closing inkstands, bottles and other vessels of capacity - - - -	1813	18th July 1861	James Archibald Jaques. John Americus Fanshawe.
An improved apparatus for stopping and packing bottles.	1815	19th July 1861	Robert Walker.
Improvements in apparatus for drawing beer and other liquids from casks and other vessels, and in excluding the air from the liquids in or remaining in the said vessels.	1981	9th Aug. 1861	Albert Julius Mott.
New or improved machinery for the manufacture or cutting of corks and bungs - - -	1985	9th Aug. 1861	Joseph Griffin. Charles Griffin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOTTLES, &c.—*continued.*			
Means for sizing corks or separating the larger from the smaller sized corks.	2079	20th Aug. 1861	James Ellis.
Improved arrangements for filling and closing bottles and other vessels.	2417	27th Sept. 1861	Duncan McCallum.
Machinery employed in cutting hollow and solid corks.	2460	2nd Oct. 1861	Edgar Breffit.
An improved instrument for corking bottles and other vessels.	2586	17th Oct. 1861	Charles de Groote.
Improved apparatus for manufacturing and containing gaseous liquids. (*Communicated by Pierre Prudence Henri Couillard.*)	2822	9th Nov. 1861	William Edward Newton.
Improvements in the construction of bottles and other vessels and in stoppers for the same, to indicate that they contain poison.	2861	13th Nov. 1861	Henry Bird.
An improved infant's feeding bottle - -	3012	29th Nov. 1861	Robert Crawford Perry.
Hermetically stoppering or covering jars, pots, vases and other like articles - - - - -	3027	3rd Dec. 1861	André Marie Augustin Pichery. Pierre Louis Danais.
An improved stopper for bottles, decanters, jars and similar articles. (*Communicated by William Augustus Shaw.*)	3031	3rd Dec. 1861	George Tomlinson Bousfield.
Stoppering bottles and other vessels - - (*Communicated by Mr. Victor Hippolyte Solon.*)	3103	11th Dec. 1861	William Clark.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services. (*Oil bottles.*)	3250	28th Dec. 1861	Arthur Warner.
BOXES, TRAVELLING-CASES, CANISTERS, CANTEENS; WORK-BOXES, DRESSING-CASES.			
An improved mode of stoppering or closing canisters, bottles or other vessels. (*Boxes, &c.*)	96	12th Jan. 1861	Marie Virginie Boquet.
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For boxes and travelling cases.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
Certain improvements in the construction of boxes for containing earth for growing shrubs or trees, which improvements are also applicable for paving, flooring, building and other purposes.	148	19th Jan. 1861	Frederick George Sanders.
Writing and dressing cases - - -	351	12th Feb. 1861	William Oldfield.
Purses, bags, reticules, pocket books, dressing cases and other similar portable receptacles.	522	1st March 1861	John William Mott.
Stopping or closing bottles, vases, cans and similar articles whether of glass, metal or other material.	621	13th March 1861	Octave Saulay.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boxes, &c.—*continued.*			
Improvements in travelling bags or cases and in fittings for the same, a part of which fittings is applicable to holding cigars and other like articles.	776	28th March 1861	James Sanderson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For ornamenting caddies.*)	853	6th April 1861	Thomas Goulston Ghislin.
An improved dressing and writing case - -	1416	5th June 1861	Oliver Chapman.
An improved portable canteen adapted for use in the army and for volunteers, tourists and others.	1108	2nd May 1861	George Mead.
Show cases and boxes used in counting-houses and by shopkeepers for containing different kinds of wares and papers or samples.	1227	14th May 1861	Frederick Bull.
Holders and cases for holding bonnet fronts, rouches, frills and other fancy articles.	1251	16th May 1861	George Knight.
Improvements in the bindings or coverings of books and portfolios, which improvements may be applied to dispatch boxes, ladies' work-boxes, office boxes and such like articles.	1271	18th May 1861	Samuel Leigh Sotheby.
An improved machine or apparatus for manufacturing the covers of tin or other metal cases.	1516	13th June 1861	Etienne Chatonet, junior.
An improved clasp or fastener - - - (*For boxes, cases, &c.*)	1577	19th June 1861	Peter Pradel.
Manufacture of boxes, cases, tubes, rings and such like articles, and machinery for the same -	1716	6th July 1861	James Roberts Black. Henry William Spratt.
Certain improvements in the manufacture of card, needle, pin and other cases, and in the application to such articles of a new branch of ornamental art not hitherto applied to such goods.	1986	9th Aug. 1861	Henry Chatwin.
Improvements in the manufacture of metallic boxes and in machinery employed therein.	2132	27th Aug. 1861	Emile Peltier.
An improved thread protecting clew box - -	2133	27th Aug. 1861	Louis Marie François Paturcau.
Tills or receptacles for money - - -	2299	14th Sept. 1861	Thomas Webb.
Improvements in the manufacture of boxes or cases and in machinery employed therein.	2461	2nd Oct. 1861	Edgar Breffit.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard wood and compounds of india-rubber or gutta-percha have hitherto been employed. (*For boxes.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Means or apparatus for closing and securing mail bags and other packages. (*Communicated by Jean Rémy Boubilla.*)	2578	16th Oct. 1861	William Clark.
Construction of horticultural cases - - - (*Communicated by Léon Albert Binet.*)	2719	30th Oct. 1861	Marc Antoine François Mennons.
Improvements in casings for stitching machines and in adapting the same for writing.	2814	9th Nov. 1861	Robert McNair.
Match boxes or cases - - - - -	2821	9th Nov. 1861	Edward Loysel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOXES, &c.—*continued.*			
An improved mode of fastening doors and for other similar purposes. (*Boxes and desks.*)	2915	20th Nov. 1861	Joseph Cooper Croxford.
An improvement or improvements in ornamenting surfaces. (*Boxes.*)	2996	27th Nov. 1861	Samuel Amphlet.
An improved fastening for boxes and cases -	3003	28th Nov. 1861	Frederic Foveaux Weiss.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise. (*Box, closet or larder "safe."*)	3069	7th Dec. 1861	Richard Jolley.
Knapsacks - - - - - - (*Communicated by Joseph Short.*)	3098	10th Dec. 1861	William Edward Newton.
An improved mode of constructing dovetail joints -	3146	14th Dec. 1861	William Rodrigues Rogers.
Improvements upon or additions to certain description of portable baths with the object of rendering them available for use as trunks or boxes.	3152	16th Dec. 1861	George Prince Vallas.
Manufacture of boxes and cases - - -	3172	18th Dec. 1861	Morris Hanff.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services.	3250	28th Dec. 1861	Arthur Warner.
BREAD, BISCUITS, AND VERMICELLI; KNEADING MACHINES, BAKERS' OVENS.			
An improved kneading machine - - -	78	11th Jan. 1861	Marie Christophe Eugene Page.
Machinery for preparing dough and paste - -	121	15th Jan. 1861	Ebenezer Stevens.
Apparatus for the manufacture of certain articles of confectionery and biscuits and other articles from plastic substances.	420	20th Feb. 1861	Thomas Holstead.
Improvements in the construction of furnaces for heating steam-boilers, bakers' ovens and brewers' coppers, which improvements are applicable also to furnaces made use of for various other purposes.	779	28th March 1861	William Stratford.
A new method of colouring as a substitute for saffron in the manufacture of cheese pastes and other articles in which saffron is employed. (*Vermicelli, &c.*)	797	1st April 1861	Gregorio Russo.
An improved method of making bread and obtaining starch from the materials employed simultaneously.	940	17th April 1861	Henry Anthonissen.
A smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick-kilns, cinder ovens, bakehouses and other purposes.	1121	4th May 1861	George Rydill.
Apparatus for churning and kneading - -	1139	6th May 1861	William Johnson.
An improved kneading machine - - -	1375	1st June 1861	Paul Gondolo.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREAD, &c.—*continued.*			
Machinery or apparatus for kneading	1921	2nd Aug. 1861	Joseph Eugène Drouot.
Machines for kneading dough	2629	21st Oct. 1861	William Winniatt.
Ovens, kilns or furnaces for manufacturing or other purposes (*For baking.*)	2646	23rd Oct. 1861	Claude Brison. Antoine-Chavanne.
An improved mechanical kneading trough	2649	23rd Oct. 1861	Joseph Felix Victor Deliry.
BREAKS, SKIDS, AND BUFFERS FOR CARRIAGES AND RAILWAYS.			
Breaks applicable to carriages and rolling stock used on railways and elsewhere. (*Communicated by Philippe Louis Aimé Stilmant and Louis Anne Felix Allain.*)	3	1st Jan. 1861	Michael Henry.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Breaks for locomotive engines	74	11th Jan. 1861	William Henry Muntz.
A railway break	343	11th Feb. 1861	William Saint Thomas Clarke.
Improved apparatus for working the breaks of railway trains.	362	13th Feb. 1861	Adolf Ellissen.
Railway breaks	385	15th Feb. 1861	William Henry Mansbridge.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
An improved method of applying breaks to the wheels of railway and other carriages.	431	21st Feb. 1861	John Longshaw.
Breaks applicable to railway carriages (*Communicated by Augustin Castellvi.*)	433	21st Feb. 1861	William Edward Newton.
An improved construction of railway buffer	550	4th March 1861	George Wilson, junior.
Breaks for railway rolling stock	580	7th March 1861	Nicolas Auguste Pouard.
India-rubber springs for railway and other uses	613	13th March 1861	George Spencer.
Railway breaks	657	15th March 1861	John Watkins.
Railway carriage buffer and other springs	670	16th March 1861	William Frederick Henson.
A new or improved steam brake (*See* "GOVERNORS.")	821	3rd April 1861	Thomas Wright. Hugh Wright.
Certain improvements in starting and retarding or stopping railway trains	823	3rd April 1861	John Seville. Walter Lawton.
Railway brakes	840	5th April 1861	Charles Storer. Richard Jones. James Storer.
Improvements in apparatus used for retarding and stopping railway carriages, and in the construction of railway axles.	1007	23rd April 1861	John Marshall.
Improved means or apparatus for releasing horses from vehicles and for locking the wheels thereof in prevention of accident.	1102	2nd May 1861	Laurent Glatard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREAKS, &c.—*continued.*			
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Buffing and coupling apparatus for railway carriages (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham. Harrington Schenley.
Railway breaks	1450	7th June 1861	William Leopard.
Breaks for railroad cars (*Communicated by Conrad B. Lashar.*)	1579	19th June 1861	George Tomlinson Bousfield.
Railway break apparatus	1663	29th June 1861	William Leopard.
Apparatus in connection with railway carriage buffers for preventing damage in cases of railway collision.	1747	11th July 1861	Patrick Adie.
Break apparatus for common-road vehicles	1837	22nd July 1861	Archibald Watson.
Machinery and apparatus for retarding and stopping railway engines and carriages.	1908	1st Aug. 1861	Herbert John Walduck.
Railway breaks	1995	10th Aug. 1861	William Saint Thomas Clarke.
Improved breaking apparatus for railway and other vehicles. (*Communicated by Alfred Tabuteau.*)	2002	12th Aug. 1861	William Edward Gedge.
Apparatus connected with railway breaks	2003	12th Aug. 1861	William Edwards. Eli Edwards.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
Mechanism or apparatus for facilitating the stopping and starting of omnibuses and other vehicles.	2194	3rd Sept. 1861	James Gresham.
An improved apparatus for stopping railway trains	2198	4th Sept. 1861	Archibald White.
Improvements in self-acting brakes applicable to railway or locomotive engines and carriages. (*Communicated by Léon Isidore Molinos.*)	2201	4th Sept. 1861	William Edward Newton.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines. (*So as to act as a break.*)	2215	5th Sept. 1861	Thomas Scott.
Railway wheels and railway brakes	2261	11th Sept. 1861	John Bowns.
An improved apparatus for the prevention of accidents to vehicles drawn by affrighted horses.	2272	13th Sept. 1861	William Davis.
Improved apparatus to be adapted to carriages for the purpose of checking or arresting their progress on inclines or when going down hill. (*Communicated by William Goode Caporn.*)	2297	14th Sept. 1861	William Edward Newton.
Improvements in railway brakes and in apparatus for actuating the same.	2357	20th Sept. 1861	William Godley Creamer.
Improved means of applying breaks to omnibuses and other four-wheeled carriages	2393	25th Sept. 1861	William Thomas Crane. Thomas Joseph Ellis.
Buffers of railway carriages	2454	2nd Oct. 1861	Alfred Fowler.
Railway brake apparatus	2873	14th Nov. 1861	William Leopard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREAKS, &c.—*continued.*			
Means of stopping or retarding railway and other carriages.	2929	22nd Nov. 1861	Hermann Christian Meyer.
An improved safety buffer or apparatus to be used in railway trains to prevent accidents from collisions. (*Communicated by Richard Dover Chatterton.*)	3014	29th Nov. 1861	Richard Archibald Brooman.
Breaks - - - - - - - - (*See* "GOVERNORS.") (*Communicated by Robert Napier.*)	3060	6th Dec. 1861	John David Napier.
BREWING, FERMENTING, MANUFACTURING AND TREATING BEER, WINE, &c.; YEAST; TREATING MALT AND HOPS.			
Improvements in the processes of making worts and washes in brewing and distilling, and in combination and adaptation of apparatus connected with the same, and for novel apparatus connected with the same. (*Communicated by Edward Felix Andrews.*)	11	2nd Jan. 1861	Elizabeth Burton West.
Improvements in the treatment of vegetable substances and in the preparation of beverages therefrom. (*See* "COFFEE, &c.") (*Communicated by Louis Henry Obert and Jean Baptiste Lavocat.*)	252	30th Jan. 1861	John Henry Johnson.
Brewing malt liquors - - - - -	278	1st Feb. 1861	Henry Medlock.
Improvements in the process of manufacturing a glutinous or viscous substance to be used in dressing textile fabrics and for other such like processes, or in brewing and distilling, and also in the apparatus to be used for the same and similar purposes.	358	12th Feb. 1861	William Maltby.
Refining malt liquors - - - - -	365	13th Feb. 1861	Charles Smith Roskilly.
Apparatus applicable for boiling, cooling and fermenting malt liquors, part of which may be applied to other purposes - - - -	534	2nd March 1861	Thomas Haigh. Robert Adam Robertson.
Mode of and apparatus used in the process of fermentation.	583	7th March 1861	George Hollands.
Charging, tunning or fermenting casks and vessels	688	14th March 1861	Edmund Alfred Pontifex.
Brewing - - - - - - -	775	28th March 1861	Louis Jean Vandecasteele.
Apparatuses for mashing malt - - - -	778	28th March 1861	William Sorrell.
Improvements in the construction of furnaces for heating steam-boilers, bakers' ovens and brewers' coppers, which improvements are applicable also to furnaces made use of for various other purposes.	779	28th March 1861	William Stratford.
Improved means for preserving fermented liquors -	792	30th March 1861	Henry Medlock.
Obtaining jellies, syrups and drinks from the tree arbutus unedo or arbousier.	962	19th April 1861	Philippe Mingaud.
Improvements in the process of brewing - -	1353	30th May 1861	Alfred Blake.
An improved crushing and pulverizing machine - (*For fruits used in making drinks.*) (*Communicated by Adolphe Joseph Cuzu.*)	1488	11th June 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREWING, &c.—*continued.*			
Improvements in arranging sizing houses, brew-houses, dye houses and other houses and chambers to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Construction of fermenting-tuns and apparatus for storing beer.	1662	29th June 1861	Alfred Wood.
Certain improvements in refrigerators for cooling liquids.	1816	19th July 1861	Daniel Gallafent.
Apparatus employed for fermenting purposes in brewing beer, as also for storing beer and for general purposes of fermentation.	1858	24th July 1861	Alfred Wood.
An improved beverage called "Moka-beer." -	2158	30th Aug. 1861	Stanislas Pluchart.
Improvements in treating yeast and in the manufacture of ammoniacal salts and a substitute for animal charcoal.	2196	3rd Sept. 1861	Patrick Robertson.
Improved means of treating barley, corn and other cereals for brewing and other purposes.	2407	26th Sept. 1861	Joseph Tessier.
Improvements in aërated or sparkling white wines -	2410	26th Sept. 1861	Victor Sosthine Lété.
Mashing-attemperators - - - - -	2435	30th Sept. 1861	Joseph Lush.
Improved machinery for mashing malt - -	2503	7th Oct. 1861	James Edward John Sansum.
Machinery or apparatus for preparing grain for brewers.	2710	29th Oct. 1861	Richard Gibbon.
Apparatuses for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors -	2901	19th Nov. 1861	Luke Smith, Matthew Smith.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise. (*Preserving wine.*)	3069	7th Dec. 1861	Richard Jolley.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes.	3118	12th Dec. 1861	Augustus Tonnar.
Refrigerators for cooling worts or other liquors -	3179	18th Dec. 1861	Charles Pontifex.
An improved method of and apparatus for separating solid from liquid substances. (*Yeast from liquor.*)	3217	24th Dec. 1861	John Rosindell.
BRICKS, TILES, AND BUILDING BLOCKS.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For tiles, blocks for building, &c.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRICKS, &c.—*continued.*			
Machinery or apparatus for pulverizing clay and other materials. (*For making bricks, tiles, &c.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
An improved construction of kiln for baking bricks, tiles or other similar articles - - -	241	30th Jan. 1861	Alexander Courtois. Jerome Ernest de Soulange.
Construction of charcoal and other kilns - - (*Form of brick blocks.*)	297	5th Feb. 1861	George Williams.
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Bricks and slabs.*)	470	23rd Feb. 1861	Thomas Spencer.
Improvements in the construction of roofs for buildings and in the manufacture of tiles suitable for use for this and other purposes.	506	27th Feb. 1861	John Taylor, junior.
Improvements in the manufacture of bricks and tiles and in machinery for that purpose.	597	11th March 1861	Joseph Bunnett.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Improved compositions or cements and methods of applying the same to various parts of buildings and houses where slates, tiles, stones and sheet metals have been used.	783	30th March 1861	John Griffiths.
Apparatus for the manufacture of bricks - -	793	30th March 1861	Thomas Simpson.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks, or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Improvements in the manufacture, construction and ornamentation of articles made of terra cotta, stone-ware and plastic clays, adapted for the construction of fireproof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.
A new manufacture of overlapping wall facing -	1093	1st May 1861	William Walton.
Machinery or apparatus for manufacturing tiles - (*Communicated by Jacques Félix.*)	1188	10th May 1861	Alexandre Louis Edm. Maulbon.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Straining clay.*)	1204	11th May 1861	William Henry Tooth.
Construction of vats and similar vessels for containing liquids.	1240	15th May 1861	Henry Doulton.
An improved method of manufacturing bricks and slabs impervious to damp, for preventing moisture rising in pavements and the walls in houses and other buildings.	1280	20th May 1861	William Charlton Forster.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRICKS, &c.—*continued,*			
Improvements in the construction and internal arrangement of furnaces and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence -	1344	29th May 1861	Thomas Hale. Arthur Wall.
Apparatus for manufacturing bricks and tiles -	1376	1st June 1861	Louis Bilon. Jean Etienne Jereimie Nappey.
Construction of arches or other curved structures made of brick, stone or other materials.	1390	3rd June 1861	Joseph Daniel Davidge.
An improved composition for building to be used in substitution for brick and stone, and an improved method of constructing walls and roofs for houses and other purposes.	1407	4th June 1861	Samuel Standfast.
Machinery or apparatus for making bricks - -	1437	6th June 1861	John Platt. William Richardson.
Manufacture of panels of ceramic or pottery ware -	1590	20th June 1861	Antoine Nicolas Lesueur.
Improvements in the manufacture of fuel from peat, and in apparatus employed therein, parts of which are applicable to the moulding of bricks, tiles and other like materials.	1592	20th June 1861	Charles Hodgson.
Manufacture of floor tiles and paving blocks - (*Communicated by Sylvain Tolijon.*)	1607	22nd June 1861	John Henry Johnson.
An improved brick making machine - - (*Communicated by Louis Fréderic Francois David.*)	1625	25th June 1861	Charles Stevens.
An improvement or improvements in the manufacture of bricks.	1713	5th July 1861	William England.
A new or improved process for the induration and preservation of stone and other analogous absorbent substances or materials, which process is also applicable to the production of artificial stone.	1738	9th July 1861	Frederick Settle Barff.
Improvements in the drying of bricks and other articles manufactured of fire clay or common clay, and in the construction of drying rooms for such purpose.	1860	24th July 1861	Adolf Julius Diedrich Seitz.
Improvements in the construction of buildings and in materials and machinery to be employed therein and therefor.	1901	30th July 1861	Matthew Allen.
A new system of covering for houses and other buildings and coverings.	1962	7th Aug. 1861	Nicolas Antoine Lesueur.
Kilns for baking bricks, tiles and other similar articles.	2021	14th Aug. 1861	Alcidalis Auguste Romain Damoiseau.
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
Machinery or apparatus for making bricks, tiles, drain pipes and other similar articles.	2211	5th Sept. 1861	Peter Effertz.
Manufacture of bricks - - - - -	2243	7th Sept. 1861	Robert Owen White.
Machinery for making bricks, pipes and tiles -	2271	13th Sept. 1861	Joseph Oliver.
Improvements in treating stone, bricks and other surfaces, and in the manufacture of filters -	2312	16th Sept. 1861	Frederic Maitland Ransome. Ernest Leslie Ransome.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRICKS, &c.—*continued.*			
Manufacture of stones, bricks, tiles, slabs, statuary and such like materials, method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - - - -	2335	19th Sept. 1861	James Cane Coombe. James Wright.
Improvements in the preservation of stone, brick and other such materials used in building, applicable also to the waterproofing of walls.	2694	26th Oct. 1861	William Smith.
Improved machinery for moulding bricks, tiles and other like articles.	2877	15th Nov. 1861	Edward Loomes.
Machinery for making bricks, tiles, pipes and other articles formed of plastic materials.	3104	11th Dec. 1861	William Carter Stafford Percy.
Improvements in the manufacture of iron and steel and in the machinery, apparatus or furnaces used therein, and for the production of gas to be employed in such manufacture -	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. (*For baking bricks.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
BRIDGES AND VIADUCTS.			
Constructing submerged works - - - (*Bridges.*)	93	12th Jan. 1861	Joseph Gibbs.
Floating structures - - - - (*For support of bridge roadways.*) (*Communicated by Thomas Schofield and Robert Schofield.*)	341	11th Feb. 1861	William Edward Newton.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For bridges.*)	482	25th Feb. 1861	George Clark.
Construction of houses and footways - -	624	13th March 1861	Julius Jeffreys.
Bridges - - - - - (*Communicated by Mr. Mathieu Castay.*)	633	14th March 1861	William Clark.
Construction of bridges - - - -	667	16th March 1861	Fleeming Jenkin.
Form and construction of ships or vessels and of arched ribs for roofs, domes and bridges -	1202	11th May 1861	George Fowler Jones. James Jones.
Construction of suspension bridges - -	1354	30th May 1861	Alphonse Oudry.
Construction of suspension bridges - - -	2054	19th Aug. 1861	Zerah Colburn.
Constructing bridges and viaducts - - -	2380	24th Sept. 1861	Angelo James Sedley.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
Improvements in rolling bridges - - -	3240	27th Dec. 1861	William Turner. John William Gibson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRUSHES AND BROOMS.			
An improvement in "bottle cleaners" - -	233	29th Jan. 1861	William Fredrick Fleming.
Machinery or apparatus for preparing fibrous materials to be combed or spun - - - - (*Construction of dabbing brushes.*)	464	23rd Feb. 1861	Auguste Duriez, fils. Sidney Emsley.
Manufacture of holders or handles for pens, pencils and artists' or painters' brushes - - -	590	9th March 1861	Thomas William Davenport. Samuel Cole.
An improved electro-galvanic friction brush - - (*Communicated by Julius Imme.*)	669	16th March 1861	Alexander Prince.
Irrigating or self-supplying water brushes, brooms and sponges. (*Communicated by Mr. J. Lemoine.*)	733	23rd March 1861	George John Baptist Loyer.
Manufacture of rubbers for the human teeth and gums.	788	30th March 1861	William Donald Napier.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For brushes.*)	853	6th April 1861	Thomas Goulston Ghislin.
Ornamenting the backs of brushes - - -	1048	26th April 1861	Richard John Cole.
Manufacture of brushes - - - - -	1265	17th May 1861	William Patey, junior. James Richardson.
An improvement or improvements in the manufacture of brooms and scrubbing brushes.	1701	4th July 1861	William Henry Ludford.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass.	1753	11th July 1861	William Wilkinson.
Improved apparatus to be used for brushing and dressing cloth - - - - - -	1812	18th July 1861	George Coles. James Archibald Jaques. John Americus Fanshawe.
Manufacture of brushes and brooms - -	1877	26th July 1861	William Wigfall.
Improvements in the manufacture of shaving brushes - - - - - - -	2214	5th Sept. 1861	William Patey, junior. James Richardson.
A new and useful improvement in the manufacture of flexible back brushes for cleaning and dusting horses and other animals.	2575	16th Oct. 1861	John Jay Adams.
An improved stock for brooms - - -	2859	13th Nov. 1861	Frederick Coney.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses.	2880	15th Nov. 1861	Werner Staufen.
Machinery for boring wood and other materials used in the manufacture of brooms and brushes	3137	13th Dec. 1861	Henry Appleby. Henry Harrison.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, PLASTERING, FLOORING AND ROOFING; BEAMS AND GIRDERS; WALLS AND CEILINGS; TENTS.			
Wrought iron beams or girders and columns -	85	11th Jan. 1861	William George Woodcock.
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For roofing and flooring.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
Certain improvements in the construction of boxes for containing earth for growing shrubs or trees, which improvements are also applicable for paving, flooring, building and other purposes.	148	19th Jan. 1861	Frederick George Sanders.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For inlaid flooring.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Constructing stable floors - - - -	276	1st Feb. 1861	Thomas Edward Knightley.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For wainscoting, flooring and ceiling.*)	482	25th Feb. 1861	George Clark.
Improvements in the construction of roofs for buildings and in the manufacture of tiles suitable for use for this and other purposes.	506	27th Feb. 1861	John Taylor, junior.
Constructing and draining floors suitable for stables and other places.	566	5th March 1861	Andrew Gibson Corbett.
Construction of houses and footways - -	624	13th March 1861	Julius Jeffreys.
Improved compositions or cements and methods of applying the same to various parts of buildings and houses where slates, tiles, stones and sheet metals have been used.	783	30th March 1861	John Griffiths.
Portable buildings or structures - - -	805	1st April 1861	James Gardner.
An improved trap or flap for covering the entrances of cellars and other places - - -	814	2nd April 1861	Caleb Schofield Senton. George Hawkins. Edward Stansfield.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stone-ware and plastic clays, adapted for the construction of fire-proof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Machinery employed in the manufacture of iron - (*Beam or joist iron.*)	825	4th April 1861	John Gay Newton Alleyne.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
Construction of ceilings and partition and other walls. (*Communicated by Jules Mathieu Dubrot.*)	856	8th April 1861	William Edward Gedge.
Plastering walls and ceilings - - -	943	17th April 1861	William Allen Dixon.
An improved system of building or construction applicable to architectural and other similar purposes.	1053	26th April 1861	Edward Strangman.
A new manufacture of overlapping wall facing -	1093	1st May 1861	William Walton.
Construction of radial traversing carriages - - (*For bringing up building materials.*)	1128	4th May 1861	Edward Pease Smith.
Improved apparatuses to be employed for supporting structures while inserting girders therein.	1142	6th May 1861	John Drew.
Adaptation of plates of iron and other metal in the construction of dwelling-houses, fences, parts of carriages or vehicles, and in other construction or constructions.	1169	8th May 1861	Philip Henry Williams.
Form and construction of ships or vessels and of arched ribs for roofs, domes and bridges -	1202	11th May 1861	George Fowler Jones. James Jones.
Combining together siliceous powder into solid masses of any form, by means of sulphur, and which combination he calls siliceous stone ware. (*For walls, ceilings, roofs, floors, &c.*)	1269	18th May 1861	Archibald Campbell Ponton.
An improvement in floors - - - -	1320	24th May 1861	Richard Preece.
Improvements in the construction and internal arrangement of furnaces and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence - -	1344	29th May 1861	Thomas Hale. Arthur Wall.
Construction of arches or other curved structures made of brick, stone or other materials.	1390	3rd June 1861	Joseph Daniel Davidge.
An improved composition for building to be used in substitution for brick and stone, and an improved method of constructing walls and roofs for houses and other purposes.	1407	4th June 1861	Samuel Standfast.
An improved "floor-dog" or cramp - -	1509	12th June 1861	George Cox.
Improvements in arranging sizing-houses, brew-houses, dye houses and other houses and chambers to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Apparatus for excavating sand and gravel under water.	1534	15th June 1861	Howard John Kennard.
Improvements in beams and girders and in applying the same in buildings.	1839	22nd July 1861	William Hood.
Arrangements in buildings and ships with a view to the extinguishment of accidental fire therein and also the ventilation thereof.	1841	22nd July 1861	Joseph Beattie.
Means of preventing the extension of fire in buildings.	1842	23rd July 1861	Charles Batty.
Machinery for cutting wood - - - (*String boards of stairs.*)	1846	23rd July 1861	Robert Thompson.
Improvements in the construction of buildings to enable them to withstand the destructive action of fire.	1870	25th July 1861	James Simmons.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
A fire preventive ceiling and apparatus for the extinction of fire in warehouses, stores, depôts and buildings.	1872	26th July 1861	Richard Rhod Swann.
Improved machinery for dressing slates - -	1884	27th July 1861	Charles Edwards Amos. John Francis.
Improvements in the construction of buildings and in materials and machinery to be employed therein and therefor.	1901	30th July 1861	Matthew Allen.
Improvements in refrigerating store-houses and in other structures in which a low temperature is continually or periodically required.	1905	31st July 1861	Alfred Wood.
Facilitating the extinguishing of fires in warehouses and other buildings - - - -	1923	3rd Aug. 1861	Edwin Tomlinson. George William Campbell Wilson.
A new system of covering for houses and other buildings and coverings.	1962	7th Aug. 1861	Nicolas Antoine Lesueur.
Construction of doors, gates and shutters principally applicable for fire proof buildings.	1973	8th Aug. 1861	William Stratford Hogg.
Construction of tents for military and other purposes. (*Communicated by François Aristide Chapelle, Louis Caron and Alexandre Amiot.*)	1992	10th Aug. 1861	George Henry Birkbeck.
Construction of fire proof buildings - -	2045	17th Aug. 1861	Henry Cheetham Hill.
Construction of buildings whereby to utilize the waste heat passing up the chimneys. (*Communicated by Mr. Léon de Sanges.*)	2084	21st Aug. 1861	William Clark.
Improvements in the construction of girders, frames or other apparatus fixed or moveable, and for certain peculiar forms or sections of iron used therein. (*See* "RAILWAYS.")	2102	22nd Aug. 1861	William Baines.
Improvements in the construction of conservatories, orchard houses and other horticultural erections, which improvements are also applicable to the covering of areas such as are used for drill sheds, markets, railway sheds, colonists' and army huts and many other similar purposes.	2117	24th Aug. 1861	James Cranston.
Improvements in glazing horticultural buildings, the roofs of railway stations and other erections.	2235	6th Sept. 1861	Thomas Goode Messenger.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames and other ornamental and useful purposes. (*Communicated by Mr. Frédéric Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Application of mica to ornamental and other purposes. (*For covering cornices.*) (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.
An improved method of making fire-proof buildings, ships and other constructions.	2324	18th Sept. 1861	Joseph Girton Briggs.
New and improved methods of attaching or fixing woodwork, ironwork, fittings or furniture to walls or buildings. (*Communicated by John Ackrill, Charles Maplestone and Frederic Kaweran.*)	2424	28th Sept. 1861	Samuel Wilton Rix.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
Improvements in the construction of umbrellas adapted to purposes of self defence, some of which improvements are also applicable to other purposes. (*Applicable for tents.*)	2431	30th Sept. 1861	Thomas Smith.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes. (*For ceilings, cornices, walls, &c.*)	2434	30th Sept. 1861	Benjamin George George.
Rendering columns, girders, doors, shutters and other parts of buildings fire proof.	2449	1st Oct. 1861	William Stratford Hogg.
Apparatus for the simultaneous manufacture of white lead and vinegar. (*Constructing of glass or mica the walls and roof of lead corroding rooms.*) (*Communicated by Robert Rowland.*)	2597	18th Oct. 1861	Charles Denton Abel.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of wind-mills.	2599	18th Oct. 1861	William Streather.
Improvements in granaries and the apparatus connected therewith.	2704	29th Oct. 1861	Joseph Martin.
An improved method of laying wood floors - -	2835	12th Nov. 1861	Robert Bellis.
Improvements applicable to buildings in order to facilitate the extinguishing of any conflagration which may happen therein.	2916	20th Nov. 1861	William Podmore Bayliss.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*For balustrades.*)	2944	23rd Nov. 1861	John Weems.
Construction of roofs for dwelling houses, horticultural erections and other buildings.	2968	26th Nov. 1861	Isaac Davies.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
For Ventilating Buildings, *see* "VENTILATION." For Warming Buildings, *see* "HEATING." For Lighting Buildings, *see* "LAMPS."			
BUOYS AND LIGHT-HOUSES.			
Floating structures - - - - (*For supporting lighthouse platforms.*) (*Communicated by Thomas Schofield and Robert Schofield.*)	341	11th Feb. 1861	William Edward Newton.
An improved system of building or construction applicable to architectural and other similar purposes. (*Lighthouses, &c.*)	1053	26th April 1861	Edward Strangman.
Construction of radial traversing carriages - - (*For building lighthouses.*)	1128	4th May 1861	Edward Pease Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUOYS, &c.—*continued.*			
Apparatus for sounding bells on lighthouses, floating lights, buoys and like floating bodies.	1220	13th May 1861	Charles Oliver.
An improved method of and apparatus for indicating the position of sunken ships or other vessels.	2282	13th Sept. 1861	Charles Sutton.
Apparatus for preventing the loss of and facilitating the recovery of ships' moorings and submerged property in general. (*Communicated by Elton Templemore.*)	2448	1st Oct. 1861	William Henry Payn.
Improvements in the construction of boats, barges, buoys and other like structures of metal and in machinery employed therein.	2788	6th Nov. 1861	William Ramsell.
BUTTONS, BUCKLES, HOOKS AND EYES, AND OTHER DRESS FASTENINGS.			
An improved buckle - - - - (*Communicated by Simon Ghidiglia.*)	48	8th Jan. 1861	Pierre Emile Chassang.
An improved buckle - - - - (*Communicated by Jean Tissinier.*)	59	9th Jan. 1861	William Edward Gedge.
An improved construction of hook for hook and eye fastenings. (*Communicated by Alvin Childs Mason, Henry Hubbard Mason and David McAllister Smith.*)	551	4th March 1861	Alfred Vincent Newton.
An improved fastening for buttons, studs, breast pins, brooches and other articles. (*Communicated by W. Kuplenschmidt.*)	565	5th March 1861	William Edward Newton.
Improvements in cravats or coverings for the throat and chest and in the fastenings for the same, which fastenings are applicable to various other parts of dress. (*Communicated by Monsieur Simon Hayen, senior.*)	586	8th March 1861	John Henry Johnson.
An improved fastening or coupling - - (*For parts of dress.*)	702	20th March 1861	Joseph Eden McDonal.
Dress fastenings which are also applicable to other fastening purposes.	760	26th March 1861	Hannah Emes.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista, and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making buttons, studs, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
A new or improved fastening which said fastening is applicable to the fastening of windows and also to the fastening of belts, garters, braces and other articles of dress - - -	871	9th April 1861	William Westbury. Edward Cooke.
New or improved fastenings for fastening bands and belts and articles of dress, and for such other purposes as the same are or may be applicable to.	878	10th April 1861	Thomas Aldridge Weston.
Manufacture of ornamental eyelets - -	947	18th April 1861	Charles Norton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUTTONS, &c.—*continued.*			
An improved means for securing a watch in the pocket of the wearer.	951	18th April 1861	Thomas Borrett Wilkinson.
Fastenings for brooches, pins and other articles of jewellery, which fastenings are also applicable to other articles.	1110	3rd May 1861	Alexander Forbes Rhind.
An improvement or improvements in buttons for garments or other purposes. (*Communicated by George Meacham.*)	1154	7th May 1861	John Henry Johnson.
An improvement in clasps or buckles - -	1319	24th May 1861	John Paterson.
Certain improvements in buttons for general use -	1325	27th May 1861	Edwin Green. Joel Cadbury.
An improved clasp or fastener - - - (*See* "LOCKS.")	1577	19th June 1861	Peter Pradel.
Method of fastening shoes, stays, gloves and other wearing-apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
Improvements in fastenings for wearing-apparel, and in the application thereof. (*See* "BELTS.")	1926	3rd Aug. 1861	Jane Cross.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Dress fastenings which are also applicable to other purposes.	2066	20th Aug. 1861	Hannah Emes.
Porte-robes or buttons for holding up the skirts of ladies' gowns.	2098	22nd Aug. 1861	Edward Landsberg, senior.
Certain improvements in the description of buttons commonly known as linen buttons.	2109	23rd Aug. 1861	William Dredge Player.
Clasps or fastenings for garments, belts, harness and like articles.	2177	31st Aug. 1861	John Jones.
Manufacture of buttons - - -	2488	5th Oct. 1861	John Edwards.
An improved steel button and method of manufacturing the same. (*Communicated by Henri Jesson.*)	2729	30th Oct. 1861	Richard Archibald Brooman.
An improved fastening for buttons, studs, solitaires, brooches, civil and military decorations and other like articles.	2730	30th Oct. 1861	Edward Watson.
Certain improvements in metallic clips or joints for holding, connecting and adjusting crinolines and other like purposes - - - -	2745	1st Nov. 1861	Myer Myers. Maurice Myers. William Hill.
Producing or delineating ornamental lines and figures on metal and other surfaces. (*Clasps for waistbands.*)	2746	1st Nov. 1861	Andrew Smith.
Skates - - - - - - - - - (*Screw button.*) (*Communicated by Daniel Hartwell Shirley.*)	2841	12th Nov. 1861	William Edward Newton.
Improvements in the making or manufacturing of certain parts of garments for either sex, likewise in the manner of preparing the same for sale, as also an improved button to be attached to garments without sewing.	2890	18th Nov. 1861	James Moore Clements.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUTTONS, &c.—*continued.*			
Improved compositions to be used in making buttons, beads, miniature and picture frames, and other articles susceptible of being moulded in a plastic material	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.
An improved button or stud	3121	12th Dec. 1861	Henry Bailey.
Buttons	3158	16th Dec. 1861	Charles Baumann.
CANDLES; CANDLE AND LAMPWICKS.			
Manufacturing tallow candles supporting a heat of 28 degrees without greasing or adhering, and extracting from the moulds whatever may be the atmosphere every two hours.	117	15th Jan. 1861	Michel Courniol.
Manufacture of stearine	1099	2nd May 1861	Eugène De Bassano. Adolphe Brudenn.
Tallow candles	1328	27th May 1861	Mathieu De Albytre.
Treatment of fatty and oily matters	1410	4th June 1861	Heinrich Ludwig Buff.
Improved machinery or apparatus for arranging and securing splints, tapers or matches in frames preparatory to dipping.	1638	26th June 1861	Samuel Alexander Bell.
An improved mode of manufacturing candle moulds	1916	1st Aug. 1861	Matthew Pratt.
A new and economical method of producing dynamic electricity, thereby obtaining useful chemical compounds. (*Obtaining elaidic acid for making stearine candles.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Certain improvements in lamps and lamp wicks whereby they are adapted for more effectively burning animal, linseed and other heavy and also glutinous and bituminous oils, and other burning fluids employed for illuminating purposes	2356	20th Sept. 1861	George Roberts. Frederick Lambe.
Lamps and lamp wicks	2523	9th Oct. 1861	William Palmer.
Means for igniting the wicks of candles and lamp wicks.	2620	21st Oct. 1861	Henry Lamplough.
Manufacture of stearine	2726	30th Oct. 1861	Eugene de Bassano. Adolphe Brudenne.
Preparing matters to be used in the manufacture of candles.	3030	3rd Dec. 1861	James Leach.
Manufacture of mould candles	3032	3rd Dec. 1861	John Lyon Field.
Manufacture or production of candles (*Communicated by Pierre Louis Alexis Boillot and Victor François Cocheu.*)	3073	7th Dec. 1861	Henry William Bristow.
Improvements in treating fatty and resinous bodies either in a neutral or acid state. (*Communicated by Charles Moinier.*)	3241	27th Dec. 1861	Peter Armand Le Comte de Fontainemoreau.
Improvements in the manufacture of night lights	3259	30th Dec. 1861	Alexander Isaac Austen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, OMNIBUSES, WAGGONS, AMBULANCES; CARRIAGE SPRINGS; CARRIAGE OF LETTERS, &c.; VELOCIPEDES.			
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Apparatus for supporting and working sash windows and other similar sliding or traversing details. (*Carriage windows.*)	86	11th Jan. 1861	Robert Smellie.
Construction of railway and other carriages - (*Communicated by Samuel J. Seely.*)	118	15th Jan. 1861	Alfred Vincent Newton.
Construction of certain kinds of passenger carriages (*Communicated by Joseph Harris, junior.*)	119	15th Jan. 1861	Lucius Aurelius Bigelow.
Improvements in apparatus for locomotion and in the construction of certain wheels employed therein and of levels used therewith, such improved wheel and level being also applicable for other purposes. (*Communicated by José Gallegos.*)	137	17th Jan. 1861	Michael Henry.
Trucks or waggons used for carrying coals -	160	21st Jan. 1861	William Pickstone.
Vehicles known as hansom cabs - - -	165	21st Jan. 1861	Thomas Stewart.
Carriage springs - - - - -	176	22nd Jan. 1861	Arthur East Holmes.
Improved spring apparatus applicable to bedsteads and other articles to which springs may be applied. (*Carriage seats.*)	202	25th Jan. 1861	Samuel Needham.
Construction and internal arrangement of railway carriages. (*Communicated by Edward Burke and Thomas A. Andrews.*)	253	30th Jan. 1861	John Henry Johnson.
Improvements in apparatus for providing against accidents in hoisting machinery, part of which improvements are applicable to railway carriage coupling links - - - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Carriage building - - - - -	292	4th Feb. 1861	Edward Charles Morgan.
Railway carriages - - - - -	294	4th Feb. 1861	John Murray.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented. (*Carriages.*)	306	6th Feb. 1861	Thomas Gee.
Improvements in velocipedes, applicable also for propelling carriages, barges and boats.	382	15th Feb. 1861	Ebenezer Poulson.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles.	397	18th Feb. 1861	Robert Offord, junior.
An improved method of applying springs to railway and other carriages.	442	22nd Feb. 1861	James Ball Mannix.
Springs - - - - - - -	477	25th Feb. 1861	William Frederick Henson.
Funeral or mourning carriages - - - -	507	27th Feb. 1861	James Turner Whitgrove.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.— *continued.*			
Improved apparatus for arresting the progress of railway accidents. (*Coupling the carriages.*)	600	11th March 1861	George Williams Baker.
India-rubber springs for railway and other uses -	613	13th March 1861	George Spencer.
Apparatus or means for preventing locomotive engines and carriages leaving the rails.	632	14th March 1861	Frederick Roessler.
Railway carriage buffer and other springs - -	670	16th March 1861	William Frederick Henson.
New or improved machinery or apparatus for fixing the windows of railway and other carriages at any required height.	675	18th March 1861	John Arrowsmith.
Improvements in street railways and railways on common roads and in locomotive engines and carriages for the said railways.	676	18th March 1861	John Arrowsmith.
An improved fastening or coupling - - - (*Applicable to railway carriages.*)	702	20th March 1861	Joseph Eden McDoual.
Machinery for cutting or working in wood - - (*Making truck sides.*)	714	21st March 1861	Thomas Greenwood. Arthur Kinder.
Commissariat ambulance cooking apparatus and appurtenances.	732	23rd March 1861	William Henry Clarke.
Irrigating or self-supplying water brushes, brooms and sponges. (*For cleaning carriages.*) (*Communicated by Mr. J. Lemoine.*)	733	23rd March 1861	George John Baptist Loyer.
A new or improved construction of carriages for children, commonly called perambulators, to be called "The Nottingham double Perambulators" - - - - -	827	4th April 1861	Robert Woodruff. Charles Milnes.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For coach bodies.*)	853	6th April 1861	Thomas Goulston Ghislin.
An improved method of collecting letters, newspapers and other mail matters in cities and towns. (*Communicated by John B. Murray.*)	866	9th April 1861	James Wright.
An improved arrangement of atmospheric post for the transmission of letters, papers and other despatches and articles in tubes. (*See* "RAILWAYS.") (*Communicated by François Antoine Kieffer.*)	945	17th April 1861	William Clark.
Machinery or apparatus for moving, conveying, transporting or transmitting bodies.	1004	23rd April 1861	Thomas Peters.
Improvements in the construction of breechloading ordnance and in the carriages and projectiles used for the same.	1011	23rd April 1861	Robert Warry.
Construction of springs - - - -	1036	25th April 1861	Perry Green Gardiner.
Landaus, sociables and other like headed carriages	1086	1st May 1861	Arthur East Holmes.
Construction of radial traversing carriages - -	1128	4th May 1861	Edward Pease Smith.
Railway carriages and locomotive engines - -	1138	6th May 1861	William Johnson.
Adaptation of plates of iron and other metal in the construction of dwelling-houses, fences, parts of carriages or vehicles, and in other structures or constructions.	1169	8th May 1861	Philip Henry Williams.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Carriages - - - - - - - -	1172	9th May 1861	Charles Lenny.
Endless or portable railways for facilitating the traction or draught of vehicles.	1187	10th May 1861	Andrew Dunlop.
Springs for rail-road cars and for carriages, and for many other purposes for which springs are used or required.	1245	16th May 1861	Alexander T. Watson.
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Buffing and coupling apparatus for railway carriages - - - - - - - - (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham. Harrington Schenley.
Improvements applicable to railways for the purpose of facilitating the transport of carriages containing goods and passengers across arms of the sea, rivers, lakes or inland waters, (*Communicated by Monsieur Mallat de Bassilan.*)	1438	6th June 1861	William Edward Newton.
A new or improved vehicle or car - - -	1542	17th June 1861	Hortensius Coates Simpson.
Improvements in the construction of children's nursery chairs, and in apparatus for use in combination with the same. (*And carriages.*) (*Communicated by George Boss Hartson.*)	1594	20th June 1861	John Henry Bartholf.
Velocipedes - - - - - -	1595	20th June 1861	William Edward Marsily.
A new locomotive apparatus having a movement resembling walking. (*See* "TOYS.") (*Communicated by Messrs. Thomas Hanlon, George Hanlon, William Hanlon, Alfred Hanlon, Edward Hanlon, and Frederick Hanlon.*)	1664	29th June 1861	William Clark.
Improvements in omnibuses for street railways, part of which is applicable to other carriages.	1683	2nd July 1861	Samuel Adams.
Locomotive engines and trains - - -	1757	12th July 1861	William Bridges Adams.
An improved combined locomotive engine and carriage. (*Communicated by Heinrich Ehrhardt.*)	1780	15th July 1861	Otto John Theodore Gössell.
Improvements in the construction of reversible seats. (*For carriages.*) (*Communicated by Thomas Rainey.*)	1957	6th Aug. 1861	Alfred Vincent Newton.
An improved wheel-barrow wagon - - - (*Communicated by Jean-Matthieu Rey, junior.*)	1963	7th Aug. 1861	Edward Thomas Hughes.
Trams to be used in connection with the wheels of carriages on common roads.	2063	20th Aug. 1861	George Ingram.
Mechanism or apparatus for facilitating the stopping and starting of omnibuses and other vehicles.	2194	3rd Sept. 1861	James Gresham.
Certain improvements in composite carriages for funeral and other purposes - - - -	2209	5th Sept. 1861	John Edward Ridges. James Barker.
The application of a self-acting lubricator to corves and wagons.	2256	10th Sept. 1861	Thomas Smith Tyson.
An improved apparatus for the prevention of accidents to vehicles drawn by affrighted horses. (*See* "HARNESS.")	2272	13th Sept. 1861	William Davis.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Carriages	2374	23rd Sept. 1861	Vincent Jankowski.
An improved steam digging machine (*And carrying apparatus.*)	2452	2nd Oct. 1861	Denis Rérolle.
A new improved spring (*Communicated by Perry Green Gardiner.*)	2534	10th Oct. 1861	Benjamin Browne.
Endless railways (*Applied to carriages.*)	2568	15th Oct. 1861	John Gilbert.
Means or apparatus for closing and securing mail bags and other packages. (*Communicated by Jean Rémy Boubilla.*)	2578	16th Oct. 1861	William Clark.
Gun and ammunition carriages	2581	17th Oct. 1861	Reuben Hayes.
Improvements in traction engines and wheels and in carriages to be drawn by traction engines, which improvements in wheels are applicable to common road carriages generally.	2655	23rd Oct. 1861	John Marshall.
Manufacture or construction of springs for railway or other vehicles.	2668	25th Oct. 1861	William Wharton.
Construction of metallic rail-road cars and other vehicles.	2680	25th Oct. 1861	Bernard Joachim La Mothe.
Means of securing the doors of railway carriages	2734	31st Oct. 1861	John Americus Fanshawe. James Archibald Jaques.
Improvements in the construction of carriages and vehicles, and in the means of ventilating the same, this part of the invention being applicable also to windows generally and other such openings.	2838	12th Nov. 1861	William Cooke.
Locomotive steam carriages for common roads	2931	22nd Nov. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Railway rolling stock (*Communicated by Thomas Jefferson Thompson.*)	3149	14th Dec. 1861	John Henry Johnson.
Improvements in the arrangement of traction and connecting apparatus for railway carriages and trains. (*Communicated by M. Claude Arnoux.*)	3227	24th Dec. 1861	George Henry Birkbeck.
See also "AXLES." "BREAKS." "WHEELS FOR CARRIAGES." For Ventilating Carriages, *see* "VENTILATION."			
CARTRIDGES AND CASES; GUN WADS.			
A new or improved instrument or apparatus for converting breech loading small arms into muzzle loading small arms, and an improvement or improvements in cartridges for breech loading small arms.	256	31st Jan. 1861	Charles Reeves.
Improved apparatus for ramming and turning over breech loading cartridges.	302	5th Feb. 1861	James Purdey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARTRIDGES, &c.—*continued.*			
Manufacture of cartridge cases for breech-loading fire-arms.	916	13th April 1861	William Thomas Eley.
An improved cartridge for breech-loading guns -	930	16th April 1861	Frederick Morton Eden.
Manufacture of cartridges - - -	992	22nd April 1861	Thomas Parry Hawker.
Cartridges - - - - - -	1396	4th June 1861	Henry Herbert Hazard.
An invention for the more perfectly finishing off and closing loaded cartridge cases used in breech loading sporting guns.	1417	6th June 1861	John Baker.
Improvements in revolving fire arms and in cartridges for the same.	1758	12th July 1861	John Adams.
Improvements in the manufacture of projectiles and of cartridges - - - - -	2128	26th Aug. 1861	John Coope Haddan. Carlo Minasi.
Improvements in cartridges for breech-loading fire-arms and in the machinery for manufacturing the same.	2203	4th Sept. 1861	François Eugène Schneider.
An improvement in gun wads - - -	2446	1st Oct. 1861	John William Scott.
Manufacture of cartridges - - - - (*Communicated by Algernon Johnston and Lorenzo Dow.*)	2601	18th Oct. 1861	Patrick Robertson.
Improvements in fire-arms and in cartridges -	2731	31st Oct. 1861	Brownlow Hugh Mathew.
An improved construction of cartridge for accelerating the flight of projectiles.	2832	11th Nov. 1861	Alexander Shannon.
Wads for fire-arms - - - - -	3119	12th Dec. 1861	John William Scott.
An improved apparatus for filling and ramming cartridges for breech loading and other fire-arms.	3154	16th Dec. 1861	William Bartram. William Sheldon Harwood.
CASKS AND BARRELS; BUNGS; TILTING CASKS.			
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For receptacles for flour, &c.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
Improved apparatus for lifting and tilting casks or other receptacles containing liquids.	140	18th Jan. 1861	Edward Argent.
Machines for manufacturing corks, bungs, spiles and such like articles. (*Communicated by Paul Alexis Adolphe Dalverny.*)	155	19th Jan. 1861	Michael Henry.
Charging tunning or fermenting casks and vessels (*Cleansing.*)	638	14th March 1861	Edmund Alfred Pontifex.
An improved method of treating wood - - (*For casks.*) (*Communicated by Edmond Armand Louis D'Argy.*)	1199	11th May 1861	Richard Archibald Brooman.
Improvements in apparatuses for containing and drawing off beer and other malt liquor, and in drawing malt liquor from casks.	1230	14th May 1861	Jean Jules Léon Chazaren.
Construction of vats and similar vessels for containing liquids.	1240	15th May 1861	Henry Doulton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARTRIDGES, &c.—*continued.*			
Improved apparatus for raising or tilting casks and other vessels or articles requiring to be tilted.	1262	17th May 1861	Jean Cirille Marius Béziat.
Constructing casks, tubs and other like vessels whereby to render them watertight. (*Communicated by Mr. Louis Désiré Trannin.*)	1469	8th June 1861	William Clark.
Certain improvements in the manufacture of corks and bungs.	1525	13th June 1861	Thomas Marshall Downing.
Constructing of fermenting-tuns and apparatus for storing beer.	1662	29th June 1861	Alfred Wood.
Machinery used in the manufacture of casks -	1899	30th July 1861	Thomas Stokes Cressey.
Improvements in apparatus for drawing beer and other liquids from casks and other vessels, and in excluding the air from the liquids in or remaining in the said vessels.	1981	9th Aug. 1861	Albert Julius Mott.
New or improved machinery for the manufacture or cutting of corks and bungs - - -	1985	9th Aug. 1861	Joseph Griffin. Charles Griffin.
CASTING AND MOULDING METALS; MANUFACTURE OF CASTINGS.			
An improvement or improvements in the manufacture of cast steel.	163	21st Jan. 1861	Robert Mushet.
Core barrels for casting pipes, cylinders, retorts and other like hollow articles - - -	194	24th Jan. 1861	Thomas Gibson. William Knighton. Henry Knighton.
Ordnance and projectiles - - - -	216	26th Jan. 1861	Henry Bessemer.
Improvements in the manufacture of malleable iron and steel and in the machinery or apparatus employed in such manufacture.	275	1st Feb. 1861	Henry Bessemer.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
Improvements in stereotype plates and in machinery or apparatus for manufacturing the same.	349	11th Feb. 1861	Giovanni Giuseppe Aggio.
Manufacture of music plates - - -	434	21st Feb. 1861	Joshua James Watts. Samuel Harton.
Machinery or apparatus for casting bullets. - -	436	21st Feb. 1861	William Watson. Alexander Watson.
Moulding wheels and other metal articles - -	521	1st March 1861	William Galloway. John Galloway.
Machinery for making bullets - - - - (*Communicated by Richard Gornall and William John Hooper.*)	552	4th March 1861	William Edward Newton.
Moulding and shaping metals - - -	639	14th March 1861	James Hunter.
Combining metals and alloys of metals for the manufacture of coins, checks, vouchers, trade marks and other useful articles, and for ornamental purposes - - - - -	836	5th April 1861	Daniel Stone. Charles Comer, junior.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING, &c.—*continued.*			
Apparatus for embossing and taking casts or matrices for stereotype and other purposes.	1056	26th April 1861	James Dellagana.
Improvements in the manufacture of wheels and in apparatus or machinery to be employed therein.	1106	2nd May 1861	Peter Wright.
An improvement or improvements in casting ingots of steel.	1310	23rd May 1861	Robert Mushet.
Obtaining products from sea weeds - - (*Coke for ironfounders.*)	1411	4th June 1861	Edward Charles Stanford.
Manufacture of railway sleepers - - -	1441	7th June 1861	John Vaughan.
Apparatus for constructing moulds for casting metals.	1482	10th June 1861	Michael Hawdon.
Stereotyping - - - - -	1510	12th June 1861	John Napier.
Manufacture of charcoal - - - - (*For foundries.*)	1646	27th June 1861	John Cass Smart. Adam Aitchison.
Improvements in the construction of buildings and in materials and machinery to be employed therein and therefor. (*Casting mouldings.*)	1901	30th July 1861	Matthew Allen.
Improvements in forming bends and other forms or parts of non-metallic pipes and in machinery or apparatus employed for such purposes, part of which improvements are applicable also to the formation of bends or curves in some kinds of metallic pipes - - - - -	1924	3rd Aug. 1861	George Bish. James Dredge.
Manufacture of metallic tubes - - -	2020	14th Aug. 1861	François Durand.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus - - - - - - -	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Construction, manufacture and mode of securing armour for the protection of ships and fortifications against projectiles.	2315	17th Sept. 1861	Francis Wrigley.
Manufacture of castings, rods, bars, bolts, nails, rivets and sheets when alloys of copper are used.	2366	21st Sept. 1861	Alexander Parkes.
Manufacture of axle-boxes and bushes - -	2369	23rd Sept. 1861	James Henry Duley.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - -	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Apparatus for goffering or embossing stuffs in high relief.	2804	8th Nov. 1861	Henry Montucci, Ph.Dr.
Improvements in the manufacture of cast iron pipes and similar articles, and in apparatus to be used therein.	2827	11th Nov. 1861	David Yoolow Stewart.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, shipbuilding, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Improvements in the moulds or chills employed in casting corner blocks, dovetailed grooves and other parts of metal bedsteads and other like articles, in frames for carrying such moulds, and in tubes for the pillars of bedsteads and other like articles - - - - -	2919	20th Nov. 1861	Edward Peyton. William Fothergill Batho.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING, &c.—*continued.*			
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes - - - - - -	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.
Improvements in the wheels of railway engines and carriages, and in the machinery or apparatus to be used in making the same.	3222	24th Dec. 1861	Thomas Edward Vickers.
Improvements in bomb shells and similar projectiles.	3245	27th Dec. 1861	James McIntyre.
CASTING AND MOULDING PLASTIC MATERIALS; MANUFACTURE OF MOULDED ARTICLES; PLASTIC COMPOSITIONS; MOULDING FUEL.			
Improvements in the manufacture of plate glass and in furnaces employed therein.	129	16th Jan. 1861	Robert Walter Swinburne.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented.	306	6th Feb. 1861	Thomas Gee.
Improvements in the manufacture of soles for clogs and other coverings for the feet, and in the machinery employed therein.	390	16th Feb. 1861	James Walker.
Improvements in envelopes and letters and in the mode of securing them, also in the seals or seal impressions or wafers used for such purpose.	409	19th Feb. 1861	William Pidding.
Manufacture of pouches of india-rubber and india-rubber fabrics.	447	22nd Feb. 1861	Manuel Leopold Jonas Lavater.
Apparatus for the manufacture of articles of earthenware and of other plastic materials.	470	23rd Feb. 1861	Thomas Spencer.
Manufacture of glass - - - - -	554	5th March 1861	Tony Petitjean.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Manufacture of hats, bonnets, waistcoats and trimmings for wearing-apparel. (*Moulding from paper pulp.*)	648	15th March 1861	Arthur Granger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING PLASTIC, &c.—*continued.*			
An invention relating to heads for lead pencils, ink erasers and other articles of like character. (*Communicated by Francis Pickard Hale, junior.*)	703	20th March 1861	Levi Lincoln Tower.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substances.	796	30th March 1861	Joseph Briggs.
Improvements in the manufacture, construction and ornamentation of articles made of terra cotta, stone-ware and plastic clays, adapted for the construction of fire-proof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same.	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.
An improved process for manufacturing india-rubber pipes.	981	20th April 1861	Jean Baptiste Jules Noirot.
Certain improvements in machinery for the manufacture of artificial fuel.	1149	7th May 1861	Jean Baptiste Jarlot.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses.	1233	14th May 1861	John Chedgey.
Manufacture of brushes - - - -	1265	17th May 1861	William Patey, junior. James Richardson.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware. (*For dies, moulds, &c.*)	1269	18th May 1861	Archibald Campbell Ponton.
An improved composition for building to be used in substitution for brick and stone, and an improved method of constructing walls and roofs for houses and other purposes.	1407	4th June 1861	Samuel Standfast.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
An improvement or improvements in the manufacture of wood and other types or substitutes therefor, and also in the matrix or apparatus for producing the same.	1652	28th June 1861	John Whitfield Harland.
Manufacture of boxes, cases, tubes, rings and such like articles and machinery for the same - -	1716	6th July 1861	James Roberts Black. Henry William Spratt.
An improved mode of manufacturing candle moulds.	1916	1st Aug. 1861	Matthew Pratt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING PLASTIC, &c.—*continued.*			
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
An improvement in the construction of tennis and racket bats.	2035	15th Aug. 1861	John Thomas Hutchings.
Preparation, application and manufacture of peat - (*Moulding ornamental articles.*)	2058	19th Aug. 1861	William Henry Smith.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*Moulding fuel.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - -	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Improved moulded india-rubber boots, shoes and other like articles. (*Communicated by Germain Burnet.*)	2737	1st Nov. 1861	David Lang.
Improvements in machinery or apparatus for making pipes and other articles of earthenware, and in the form of pipes for gas, sewage and other purposes - - - - - - (*Communicated by Alfred Delafol.*)	2763	2nd Nov. 1861	Thomas Spencer. Thomas Robinson.
Improved compositions to be used in making buttons, beads, miniature and picture frames, and other articles susceptible of being moulded in a plastic material - - - - - -	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Manufacturing moulded earthen or stoneware cross sleepers for superseding wooden ones in the construction of railways	3133	13th Dec. 1861	Pierre Quantin.
An improvement or improvements in the manufacture of wood and other types or substitutes therefor, or furniture used by letter-press printers.	3248	28th Dec. 1861	John Whitfield Harland.

See also "BOTTLES."
"BRICKS."
"EARTHENWARE."
For Moulding Sugar, *see* "SUGAR."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CEMENT AND PLASTER.			
Manufacture of Portland cement - - -	106	14th Jan. 1861	James Lark.
An improved construction of kiln for calcining limestone, gypsum or other similar substances -	240	30th Jan 1861	Alexander Courtois. Jerome Ernest De Soulange.
Manufacture of artificial stone and cement - -	505	27th Feb. 1861	Frederick Ransome.
Improvements in the means of preserving stones, bricks, slates, wood and other analogous materials from the action of atmospheric and other influences, and also in the manufacture of mortar, cement, artificial stone and such like substances - - - - - - -	626	14th March 1861	James Cane Coombe. James Wright.
Improved compositions or cements and methods of applying the same to various parts of buildings and houses where slates, tiles, stones and sheet metals have been used.	783	30th March 1861	John Griffiths.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.
An improved method of manufacturing silicate of lime or hydraulic cement.	929	16th April 1861	Frederick Morton Eden.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware. (*A cement, lute or mortar.*)	1269	18th May 1861	Archibald Campbell Ponton.
An improved composition or preparation for hardening and preserving stone and cement.	1428	6th June 1861	Jesse Rust.
An improvement or improvements in the manufacture of cements or adhesive solutions for joining or connecting together surfaces or articles of leather, wood, paper or other similar materials. (*See* "STARCH.")	1566	18th June 1861	Murdoch McKay.
A new or improved process for the induration and preservation of stone and other analogous absorbent substances or materials, which process is also applicable to the production of artificial stone.	1738	9th July 1861	Frederick Settle Barff.
Kilns or ovens for burning or calcining limestone, chalk, cement and other substances requiring such process.	2408	26th Sept. 1861	Marie François Alexandre Courtoise.
Machinery for breaking and crushing limestone and other hard substances.	2706	29th Oct. 1861	John Bibbington.
An improved process for hardening stones and plaster of Paris and making them impervious to water - - - - - -	2952	25th Nov. 1861	Jean Baptiste Hulard. Louis Guillaume Poupel.
Blowers or apparatuses for superheating steam and other gases, and for projecting them combined with atmospheric air upon ignited combustible matter. (*For burning lime, baking plaster, &c.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CEMENTED AND FLOCKED FABRICS; ADHERING POWDER, FIBRES, &c.; CEMENTED YARNS; CEMENTED WICKER-WORK.			
An improved mode of manufacturing fabrics for useful and ornamental purposes. (*To resemble quilting.*)	168	22nd Jan. 1861	Christopher Duckworth.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented.	306	6th Feb. 1861	Thomas Gee.
Manufacture of bodies for caps, hats, bonnets, baskets, bags and reticules, and other similar articles of light work.	325	9th Feb. 1861	Hermann Freystadt.
An improvement or improvements in ornamenting surfaces.	575	7th March 1861	William Edward Wiley.
Manufacture of yarns or threads - - - (*Communicated by Antoine Louis Warnery.*)	581	7th March 1861	William Edward Newton.
Silvering glass and other surfaces - - - (*Woven fabrics.*)	619	13th March 1861	John Cimeg.
Imitation of gold and silver embroidery - - (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Covering or partially covering the sticks and handles of whips and parasols as also various other articles with flock, and producing ornamental effects thereon.	1157	8th May 1861	Joseph Pickett.
Manufacture of kamptulican - - -	1387	3rd June 1861	William Richard Jeune.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
Perforated materials in combination with india-rubber.	1736	9th July 1861	George Seaborn Parkinson.
An improved method of preparing flax from old materials for spinning and other purposes. (*Making wadding.*)	1844	23rd July 1861	Thomas Gray.
A new application of certain products to ornamenting tissues, papers and other surfaces.	1866	25th July 1861	Marc Klotz.
An improvement in the ornamentation of woven and other fabrics for garments and parts of garments. (*Adhering paper forms and figures.*)	2170	31st Aug. 1861	Henry Keach.
Improvements in the manufacture of floor cloth and in ornamenting other surfaces.	2345	19th Sept. 1861	Samuel Hawksworth.
Manufacture of elastic fabrics - - -	2779	5th Nov. 1861	Edward Bowra.
Improvements in the making or manufacturing of certain parts of garments for either sex, likewise in the manner of preparing the same for sale, as also an improved button to be attached to garments without sewing.	2890	18th Nov. 1861	James Moore Clements.
Manufacture of collars, shirt fronts, cuffs, hats, bonnets, vests and other articles of wearing-apparel.	2923	21st Nov. 1861	James Harrow Jeffs.
Textile and felted fabrics - - - -	2943	23rd Nov. 1861	Charles Henry Julius William Maximilian Liebmann.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CEMENTED FABRICS, &c.—*continued.*			
Manufacture and ornamentation of textile fabrics -	3036	4th Dec. 1861	James Hemingway.
Ornamentation of textile fabrics - - - (*Printing or adhering steel dust.*)	3174	18th Dec. 1861	Joseph Thiébaut.
CHAINS; CHAIN CABLES; HOOKS, HOOPS, RINGS.			
An invention for the use of joiners, cabinet makers and others, called a bench hook.	123	16th Jan. 1861	William Coulter.
An improved method of manufacturing tyres for wheels, hoops and rings. (*Communicated by the Société des Forges.*)	177	22nd Jan. 1861	Richard Archibald Brooman.
Ordnance and projectiles - - - - - (*Making rings or hoops.*)	216	26th Jan. 1861	Henry Bessemer.
An improvement in the manufacture of swivel rings especially applicable to swivels and watch keys.	246	30th Jan. 1861	Ephraim Smith.
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For dog chains and collars.*)	869	9th April 1861	Charles Gill.
Machinery for the manufacture of sheet metal chains.	891	11th April 1861	James Lancelott.
An improvement or improvements in the manufacture of the bezels or rings used in glazing the dials of clocks, barometers and steam gauges, and for other like purposes.	961	19th April 1861	Arthur Frederick Eaves.
An improved connecting link - - -	1049	26th April 1861	Edward Newby.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines and self acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Improvements in the manufacture of heels, clog irons, horse shoes, chain links and similar articles, and in apparatus therefor - -	1689	3rd July 1861	James Bennie. William Moffat.
Manufacture of boxes, cases, tubes, rings and such like articles, and machinery for the same - -	1716	6th July 1861	James Roberts Black. Henry William Spratt.
Manufacture of wheel tyres, hoops and other similar articles - - - - - -	2226	6th Sept. 1861	William Allott. John Thelwall.
Manufacture of chains and chain cables - -	2281	13th Sept. 1861	Joseph Bennett Howell.
Tools for the manufacture of leather and other rings, washers and laces.	2447	1st Oct. 1861	John William Scott.
Certain improvements in the construction of cables or chains for telegraphic and other purposes, and for machinery connected therewith.	2755	2nd Nov. 1861	Thomas Walker.
An improved chain cable stopper or controller -	2895	18th Nov. 1861	Martin Dadd Rogers.
Improved compositions to be used in making buttons, beads, miniature and picture frames, and other articles susceptible of being moulded in a plastic material - - - - - (*Chain links.*)	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CHAINS, &c.—*continued.*			
Improvements in chains for giving motion to chain wheels and in giving motion to machinery	3263	31st Dec. 1861	Thomas Green. Willoughby Green. Robert Mathers.
Improved apparatus for winding, holding and letting go cords, bands or chains particularly applicable to window-blinds.	3268	31st Dec. 1861	John Haslam.
CHARCOAL, COKE, CARBON, LAMP AND ANIMAL BLACK.			
Improvements in hardening the surfaces of the rails of railways and the surfaces of the tyres of railway wheels, and in charring the surfaces of timber to be used for railway sleepers and other purposes. (*And producing vegetable charcoal.*)	68	10th Jan. 1861	William Longmaid.
Construction of charcoal and other kilns	297	5th Feb. 1861	George Williams.
Manufacture of glass (*Preparing charcoal for discs.*)	554	5th March 1861	Tony Petitjean.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining charcoal.*)	650	15th March 1861	William Lorberg.
Preparing coal used in the manufacture of artificial fuel.	1051	26th April 1861	Ferdinand Charles Warlich.
Manufacture of coke	1336	28th May 1861	Philip Anthony Millward.
Improvements in obtaining products from coal and in apparatus employed therein.	1382	1st June 1861	William Albert Shepard.
Obtaining products from sea weeds (*Charcoal and coke.*)	1411	4th June 1861	Edward Charles Stanford.
Apparatus for re-burning animal charcoal	1640	26th June 1861	John Cowan.
Manufacture of charcoal	1646	27th June 1861	John Cass Smart. Adam Aitchison.
Distillation of solid and liquid combustible matters (*Communicated by Mr. Etienne Charles Zacharie Bouchard.*)	1666	29th June 1861	William Clark.
Apparatus for reburning animal charcoal	2029	15th Aug. 1861	Stephen Carey. William Morgan Pierce.
Preparation, application and manufacture of peat (*For coke.*)	2058	19th Aug. 1861	William Henry Smith.
Improvements in the manufacture of sugar and in the apparatus employed therein, also in the apparatus employed in reburning animal charcoal.	2146	28th Aug. 1861	James Duncan.
Improvements in treating yeast and in the manufacture of ammoniacal salts and a substitute for animal charcoal.	2196	3rd Sept. 1861	Patrick Robertson.
Mode of and apparatus for carbonizing saw dust and other vegetable substances	2283	13th Sept. 1861	Henry Dixon. John Robinson Renner.
Ovens, kilns or furnaces for manufacturing or other purposes (*For calcining wood.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CHARCOAL, &c.—*continued.*			
Improvements in the manufacture of coke and in apparatus connected therewith - -	2913	20th Nov. 1861	Edward Fisher Smith. Thomas Swinnerton.
Improvements in collecting and utilizing smoke, gases, and such like products of combustion, rendering the same available for heating steam-boilers and other purposes where heat is required, which improvements are also applicable to the desulphurization of coal in making coke.	2962	25th Nov. 1862	John Halford.
A mode of utilizing the waste heat of furnaces used in reburning animal charcoal.	2964	25th Nov. 1861	Phineas Cowan.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. (*For desulphurization of coke.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
Improvements in revivifying animal black or charcoal, in collecting ammoniacal gases generated in the revivification, in the clarification of saccharine liquors, and in apparatus employed in the revivification of the black and in the filtering of saccharine liquors. (*Communicated by Absolon Hippolyte Leplay and Jules François Joseph Cuisinier.*)	3275	31st Dec. 1861	Richard Archibald Brooman.
CHENILLE; CHENILLE FABRICS.			
Machinery for the manufacture of chenille and other circular pile fabrics.	886	10th April 1861	Thomas Taylor.
Manufacture of looped pile fabrics - - (*Like chenille with loops not cut.*)	926	15th April 1861	Frederick Lennard.
Improved machinery or apparatus for the manufacture of chenille.	934	16th April 1861	Charles Fletcher.
Machinery for cutting certain fabrics into strips - (*To be manufactured into chenille.*)	1030	25th April 1861	Thomas Taylor.
Machinery for the manufacture of chenille and other circular pile fabrics.	3040	4th Dec. 1861	Henry George Hacker.
CHEQUES.			
Improvements in the manufacture of paper and card paper or card board with the object of preventing forgery and alterations in cheques and other documents, and which improvements are also applicable to the manufacture of playing-cards and railway and other tickets. (*Communicated by Mr. Joseph Prosper Olier.*)	3185	19th Dec. 1861	Alphonse Treuille. François Xavier Traxler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CHLORIDES.			
Batteries for obtaining electric currents and the products therefrom - - - - (*Obtaining chloride of copper, zinc, &c.*)	2298	14th Sept. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Improvements in the mode of obtaining certain chemical substances, and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - - (*Obtaining earthy chlorides.*)	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
CHURNS; MAKING BUTTER; COLOURING CHEESE PASTES.			
Apparatus for washing and churning - -	142	18th Jan. 1861	Robert Mason.
Improved apparatus applicable for washing and churning.	211	26th Jan. 1861	Frederick William Webster.
Tanks or vessels for dairy use - - -	661	15th March 1861	William Cloutman.
A new method of colouring as a substitute for saffron in the manufacture of cheese pastes and other articles in which saffron is employed.	797	1st April 1861	Gregorio Russo.
Machinery for washing fabrics and for churning -	1120	4th May 1861	William Addy.
Apparatus for churning and kneading - -	1139	6th May 1861	William Johnson.
Churns - - - - - - -	1342	29th May 1861	John Halliwell.
Improvements in treating cream or milk, and in obtaining butter and other products therefrom.	1348	30th May 1861	Frances Ann Whitehead.
An improvement in churns - - -	1405	4th June 1861	Anson Hubbell.
A new or improved instrument or apparatus for churning and for beating eggs and for other like purposes.	1426	6th June 1861	George Baker.
Apparatus for beating eggs and for mixing or agitating other fluids, compounds or matters. (*Churning butter.*)	1596	21st June 1861	George Turner.
Churns - - - - - - -	1608	22nd June 1861	James Comrie.
Machinery for washing, wringing, mangling and churning.	1731	8th July 1861	Richard Hornsby, junior.
Washing, churning, wringing and mangling machines	1897	30th July 1861	Thomas Bradford.
Churns - - - - - - -	2411	26th Sept. 1861	Robert Davis.
Improvements in the treatment of milk for the manufacture of butter, and in apparatus for the same.	3139	13th Dec. 1861	John Kelly.
CISTERNS, WATER TANKS, BUCKETS, TUBS.			
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CISTERNS, &c.—*continued.*			
Preventing incrustation in steam-boilers, in tanks for containing the feed for the same, and in bars for the furnaces thereof.	614	13th March 1861	James Farren.
Tanks or vessels for dairy use - - -	661	15th March 1861	William Cloutman.
Improved compositions or cements and methods of applying the same to various parts of buildings and houses where slates, tiles, stones and sheet metals have been used. (*For cisterns.*)	783	30th March 1861	John Griffiths.
Construction of locomotive engines - - - (*Forming the water tank.*)	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making bucket ears.*)	1446	7th June 1861	Samuel Bennett, junior.
Constructing casks, tubs and other like vessels whereby to render them watertight. (*Communicated by Mr. Louis Désiré Trannin.*)	1469	8th June 1861	William Clark.
An improved mode of treating tubes used for posts for metallic bedsteads and other purposes, and in the machine for producing the same, and which said machine is also applicable for cutting out and piercing articles of sheet metal, such as washers, metallic bucket ears and other such like articles - - - - - -	1672	1st July 1861	Ferdinand Potts. Richard Cox.
Apparatus employed for fermenting purposes in brewing beer, as also for storing beer and for general purposes of fermentation.	1858	24th July 1861	Alfred Wood.
Constructing gasometers and gasometer tanks -	2075	20th Aug. 1861	Frederick Gye.
Apparatus for preventing waste of water from service pipes or cisterns.	2265	12th Sept. 1861	Charles Greaves.
Buckets and portable water cisterns - -	2481	4th Oct. 1861	Charles Mills Elstob.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Metallic cisterns.*)	2944	23rd Nov. 1861	John Weems.
An improved composition for coating metal and wood to preserve them from decay, applicable as a substitute for copper and other sheathing or other compositions now in use for coating ships' bottoms to protect them from the injurious action of water. (*Lining metal tanks.*)	3054	5th Dec. 1861	Charles Davis.
CLOCKS, WATCHES, AND OTHER TIMEKEEPERS; CALENDARS; WATCH KEYS, CHAINS AND GUARDS.			
An improved watch movement - - -	2	1st Jan. 1861	George Cook.
Improved feet for levelling clocks and other articles.	12	3rd Jan. 1861	Ponsonby Arthur Moore.
Swivels or fastenings for connecting watches to watch chains, for fastening articles of jewellery and for other like purposes.	125	16th Jan. 1861	John Reading.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
An improvement or improvements in coating sheets or plates of iron with lead or tin or alloys of lead and tin - - - - - -	317	8th Feb. 1861	Thomas Banks. Thomas Morgan.
Telegraph cables - - - - - -	322	8th Feb. 1861	John Branscombe.
Improvements in the construction of submarine telegraphic cables and in the means of protecting the same from undue strain or wear and tear.	329	9th Feb. 1861	David Ker.
Coating or covering metallic springs or bands for crinolines and other articles of dress.	461	23rd Feb. 1861	John William Wyatt.
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Covering moulds.*)	470	23rd Feb. 1861	Thomas Spencer.
Insulating and covering the conducting wires used for telegraphic purposes.	549	4th March 1861	Hermann Hirsch.
Telegraphic cables - - - - - -	579	7th March 1861	Thomas William Evans, M.D.
An improved mode of preventing corrosion in boiler tubes. (*Coating the tubes with metal.*)	686	19th March 1861	Arthur Wall.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Submarine telegraph cables - - - - -	753	25th March 1861	John Chatterton. Willoughby Smith.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Manufacture and insulation of telegraph cables and telegraphic wires in general, and of apparatus for laying marine telegraph cables.	800	1st April 1861	Richard Searle.
Improvements in carriage and other axles, and also in shafts and other parts of machinery exposed to the action of the atmosphere.	838	5th April 1861	William Richardson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same.	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces and for other purposes.	884	10th April 1861	John Caw, junior.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
An improved process for manufacturing india-rubber pipes. (*For covering telegraphic wires.*)	981	20th April 1861	Jean Baptiste Jules Noirot.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Preventing the fracture of metals from crystallization. (*Coating.*)	1055	26th April 1861	John Marshall.
Carding-engines for carding wool, cotton, silk or other fibrous substances. (*Covering the surface of licker-in.*)	1096	2nd May 1861	William Scholes.
Electric telegraphs - - - - -	1113	3rd May 1861	Owen Rowland.
Improvements in the decomposition of the compounds of aluminium and in coating metals with aluminium or its alloys. (*Communicated by Louis Le Chatelier.*)	1214	13th May 1861	Thomas Bell.
An improvement or improvements in producing designs in enamel on articles of brass and the alloy called German silver.	1259	17th May 1861	Samuel Tearne.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Electro-plating.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Construction of electric telegraph cables or ropes -	1329	27th May 1861	Charles Stewart Duncan.
Improvements in the manufacture of insulators for telegraphic wires, and in materials and machinery for coating telegraphic wires.	1406	4th June 1861	Heinrich Gottlieb Bernhard Roeber.
Constructing casks, tubs and other like vessels whereby to render them watertight. (*Communicated by Mr. Louis Désiré Trannin.*)	1469	8th June 1861	William Clark.
Construction of electrical piles - - - (*For galvano-plastic work.*)	1503	12th June 1861	Jean Armand Callaud.
Electro-magnetic engines - - - - (*For electrotyping.*) (*Communicated by George Beardslee.*)	1567	18th June 1861	William Edward Newton.
A new or improved manufacture of street plates, name plates and other plates or surfaces having inscriptions or devices thereon.	1749	11th July 1861	John Clutton Blair Salt.
Manufacture of tin and terne-plates - -	1774	15th July 1861	Rees Taylor. Thomas Price.
Mode of insulating and covering wire - -	1806	18th July 1861	Charles West.
New or improved machinery to be used in the manufacture of tin plates and terne plates and iron plates coated with lead - - -	1868	25th July 1861	Robert Kelly. John Shakespeare.
Coating wire with copper, silver, gold or other metal or alloy in order to prevent oxidation. (*Communicated by Martin Miller.*)	2023	14th Aug. 1861	Richard Archibald Brooman.
Spring balances or weighing-apparatus - - (*Galvanising the cases.*)	2025	14th Aug. 1861	Thomas Silvester.
An improved mode of manufacturing gold dials - (*Electrotyping.*)	2040	15th Aug. 1861	Julian Faucherre.
An improved method of coating the interior surface of lead and lead composition pipes with tin or its alloys.	2213	5th Sept. 1861	Frederick Bennett.
Machinery for the manufacture of skirts usually called crinoline skirts.	2242	7th Sept. 1861	Herbert Redgate.
Application of mica to ornamental and other purposes. (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Means of fastening or securing the handles of table knives and forks, daggers and other similar articles. (*Tinning the tang.*)	2355	20th Sept. 1861	James Burnand.
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.
Manufacture of safety fuzes - - -	2433	30th Sept. 1861	John Solomon Bickford. George Smith.
Rendering columns, girders, doors, shutters and other parts of buildings fire-proof. (*Casing with brick.*)	2449	1st Oct. 1861	William Stratford Hogg.
Apparatus for the manufacture of gas - - (*Casing retorts.*)	2473	3rd Oct. 1861	William Malam.
Covering crinoline wire and other like substances - (*See* "WEAVING.")	2479	4th Oct. 1861	John Beesley.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard-wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Improvements in apparatuses for the production of galvanic and magneto-electric currents, and in machinery employed in making some of the apparatuses. (*Winding wire on fibrous materials.*)	2656	23rd Oct. 1861	Isac Louis Pulvermacher.
Improvements in magnets, induction coils, and in insulating wire and metal for electric and other purposes - - - - -	2661	24th Oct. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Means of obtaining and producing printing-surfaces. (*Communicated by Alphonse Edouard Aufrey and François Germain Léopold Tabar.*)	2699	28th Oct. 1861	William Clark.
Electroplating or depositing metals - - (*Communicated by Jabez Ellis Walcott.*)	2784	5th Nov. 1861	George Tomlinson Bousfield.
Improvements in the manufacture of metallic tubes and in coating or plating metals.	2944	23rd Nov. 1861	John Weems.
The application of certain electro-deposits to the coating or finishing of the stretchers, ribs and other metal portions of umbrellas and parasols -	3074	7th Dec. 1861	Thomas Fearn. Thomas Cox, junior.
Shoes for horses and other quadrupeds - - (*Lining with vulcanite.*)	3085	9th Dec. 1861	Stephen William Silver. Hall Pringle.
Improvements in the manufacture of iron and steel, and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - - - (*Coating cast iron lining blocks.*)	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes - - - - -	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.
Submarine electric telegraphic cables - -	3170	18th Dec. 1861	William Dicey.
An improvement in cylinders used in printing calicoes and other textile fabrics. (*Communicated by Henry Kündig George Bertschy and Joseph Porges de Portheim.*)	3203	20th Dec. 1861	Dudley Charles Le Souëf.
Improvements in the method of treating steel for the manufacture of crinoline.	3236	26th Dec. 1861	Henry Dawes.
A new method and machinery for covering springs used for petticoats and other articles. (*Communicated by Antoine Rameau.*)	3266	31st Dec. 1861	Frederick Tolhausen.
II.—Coating, Plating, Lining, and Facing Glass, Wood, Stone, Plastic Materials, Textile Fabrics, &c.			
Preparation of non-conducting substances for the deposition thereon of metals by electric action.	145	19th Jan. 1861	Bernard Piffard.
Manufacture of pigments for coating surfaces.	215	26th Jan. 1861	George Hallett. John Stenhouse.
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Coating, coloring and glazing or finishing laces, bands, straps, belts and other similar articles, and in the machinery or apparatus employed therein.	298	5th Feb. 1861	William Paton.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles. (*Step-covers.*)	397	18th Feb. 1861	Robert Offord, junior.
Coating and protecting the silvered surfaces of looking-glasses or mirrors.	454	22nd Feb. 1861	James Edgar Cook.
Silvering glass and other surfaces - - -	619	13th March 1861	John Cimeg.
An improved fabric for covering billiard and bagatelle tables and other similar uses. (*Communicated by Jules Cordier.*)	700	20th March 1861	William Edward Gedge.
Manufacturing playing-cards - - - (*Metallizing the corners.*)	705	20th March 1861	Marie Joseph Firmin Chappellier.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Manufacture of papier-mâché blank trays.	851	6th April 1861	Benjamin Knowles.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Preparing, applying and adapting certain vegetable productions called ciklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same.	853	6th April 1861	Thomas Gr[illegible] Ghislin.
An improvement in the manufacture of "card cloth" used for carding cotton, wool and other fibrous substances - - - - -	860	8th April 1861	Joseph Walker. James Barnes.
Rendering pills tasteless by means of a coating of albumen.	925	15th April 1861	Robert Charles Furley.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
A new manufacture of overlapping wall facing -	1093	1st May 1861	William Watson.
Gutta percha and india rubber toys - - (*Coating with glue.*) (*Communicated by Henry Galante.*)	1146	7th May 1861	Charles Stevens.
Covering or partially covering the sticks and handles of whips and parasols as also various other articles with flock and producing ornamental effects thereon.	1157	8th May 1861	Joseph Pincott.
Improvements in the construction and internal arrangement of furnaces, and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence.	1344	29th May 1861	Thomas Hale. Arthur Wall.
Constructing casks, tubs and other like vessels whereby to render them watertight. (*Communicated by Mr. Louis Desire Trannin.*)	1469	8th June 1861	William Clark.
An improved impermeable varnish for leather - (*Communicated by Joseph Chapu and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
Treating materials for the manufacture of banners and flags	1728	6th July 1861	George Tutill.
An improvement or improvements in backing or covering the backs or foundations of raised and cut piled fabrics - - - - -	1988	9th Aug. 1861	Charles Lee. Thomas Kemp Mace.
Manufacture of smoking pipes and cigar tubes, and preparing, washing, coating, covering or otherwise impregnating them with aromatic substances in a solid, liquid or aeriform state.	2114	24th Aug. 1861	Michael Hyams.
Heating and ventilating especially applicable to Turkish baths. (*Covering flues with tiles.*)	2120	26th Aug. 1861	Robert Watkin Jones.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames and other ornamental and useful purposes. (*Communicated by Mr. Frederic Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Application of mica to ornamental and other purposes. (*Communicated by Messrs. Louis Augustin Alexandre Carenne and Fréléric Holthausen.*)	2308	16th Sept. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.
Manufacture of varnishes applicable to the water-proofing and coating of fabrics and other uses -	2440	30th Sept. 1861	Frederick Walton. Richard Beard.
An improved process for silvering looking-glass in piles of several sheets superposed without interruption, which process consists in the use of a chemical powder.	2477	4th Oct. 1861	Charles Husson.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard-wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Manufacture of buttons - - - - - (*Facing bone buttons with metal.*)	2488	5th Oct. 1861	John Edwards.
An improvement in coating pills for rendering them tasteless.	2553	12th Oct. 1861	Robert Charles Furley.
Manufacture of elastic fabrics - - -	2779	5th Nov. 1861	Edward Bowra.
Treatment of carpets - - - - - (*Coating the back.*) (*Communicated by Jean Armand Edmond Poloncean.*)	2808	8th Nov. 1861	John Henry Johnson.
A new or improved method of protecting and preserving photographic and other prints, water color drawings and other works of art from injury and decay.	2924	21st Nov. 1861	George Henry Polyblank
Machinery or apparatus for preparing oval picture frames. (*Coating with enamel preparatory to gilding.*) (*Communicated by Robert Marcher.*)	2959	25th Nov. 1861	John Henry Johnson.
Electric telegraphs - - - - - - (*Covering insulators with varnish.*)	3078	9th Dec. 1861	Cromwell Fleetwood Varley.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*And gilding leather.*) (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes - - - - - -	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.
Manufacture of coverings for the ends of cigars -	3180	19th Dec. 1861	William Betts.
An improved composition or improved compositions suitable for painting, varnishing and coating - - - - - - -	3247	27th Dec. 1861	Jean Joseph Hector Fajole. Pascal Achille Agostini.
XIII.—Coating, Sheathing and Facing Ships; Compositions for the Purpose.			
Manufacture of paper and pasteboard - - (*For sheathing ships.*)	28	5th Jan. 1861	Pierre Courtais. Fortuné Jammet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Construction of ships and other vessels for war purposes.	206	25th Jan. 1861	Charles Lungley.
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin de Arrieta.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
Armour or metal covering for iron cased ships of war.	326	9th Feb. 1861	Charles James Richardson.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For armour plates.*)	482	25th Feb. 1861	George Clark.
Arrangements and construction of armour or iron clad steam or other ships.	533	2nd March 1861	Robert Griffiths.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.
Improvements in and in the mode or modes of applying and securing the metal plates of armour plated ships or vessels and other armour plated structures.	544	4th March 1861	John Coope Haddan.
Sheathing iron ships or vessels - - -	620	13th March 1861	George Frederick Muntz.
Protecting ships and fortifications - - -	668	16th March 1861	Edward Charles Morgan.
Marine propulsion - - - - (*Covering the propelling apparatus with a shield.*) (*Communicated by Edward Bruce Boughton Barker.*)	673	16th March 1861	George Henry Birkbeck.
Improvements in or connected with ships or vessels	782	30th March 1861	William Simons.
Construction of iron vessels of war - - -	1005	23rd April 1861	Joseph D'Aguilar Samuda.
Improvements in armour plates or bars for protecting ships and other structures and in fixing the same.	1198	11th May 1861	Charles William Lancaster.
Form and construction of ships or vessels and of arched ribs for roofs, domes and bridges - -	1202	11th May 1861	George Fowler Jones. James Jones.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware. (*As a coating for ships' bottoms.*)	1269	18th May 1861	Archibald Campbell Ponton.
Improvements in plates to be used in ships and other structures for receiving armour plates or bars, and in the means of fixing such armour plates.	1275	18th May 1861	John Hughes.
Armour coating for ships, fortifications and other structures.	1388	3rd June 1861	George Benjamin Vaughan Arbuckle.
Protecting ships of war and land batteries from the effects of projectiles.	1449	7th June 1861	Edward Alfred Cowper.
An improved method of sheathing ships and vessels with copper and other metallic sheathing.	1452	7th June 1861	Charles William Lancaster.
Improvements in the adaptation of plates or shields to fixed and floating batteries and also ships, for the purpose of more effectually resisting shot or other projectiles.	1508	12th June 1861	Joseph Drew.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Metal casing or armour for the defence of ships and batteries.	1527	14th June 1861	William Cave Thomas.
Manufacture of armour plates for defensive purposes.	1781	15th July 1861	William Rigby.
An improved mode of building ships and floating batteries, applicable also in part to the construction of fortifications.	1814	18th July 1861	Jasper Wheeler Rogers.
Improvements in the manufacture of ships' armour plates and other heavy forgings, and in the machinery or apparatus employed therein. (*Communicated by Hyppolite Ulysse Petin and Jean Marie Gaudet.*)	1825	19th July 1861	John Henry Johnson.
Certain improvements in the construction, armament and equipment of batteries, floating or otherwise, for war purposes.	1873	26th July 1861	John Frederick Bourne.
Manufacture of sheathing metal for ships and vessels.	1900	30th July 1861	Alexander Parkes.
Mode of fastening iron armour plates to ships' sides	1938	5th Aug. 1861	Charles Burn.
Improvements in protecting ships of war and land batteries from the effects of projectiles.	1954	6th Aug. 1861	Edward Alfred Cowper.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
Sheathing iron ships or vessels - - -	2076	20th Aug. 1861	George Frederick Muntz.
Improvements in the construction of armour plates and in their application to ships and batteries.	2125	26th Aug. 1861	John Lyon Field.
Manufacture of armour plates for the protection of vessels of war, floating or other batteries.	2216	5th Sept. 1861	John Napier.
Machinery for rolling iron or other metals - - (*Armour plates.*)	2218	5th Sept. 1861	John Napier.
Constructing ships or vessels - - -	2246	9th Sept. 1861	William Simons.
Construction, manufacture and mode of securing armour for the protection of ships and fortifications against projectiles.	2315	17th Sept. 1861	Francis Wrigley.
An improved method of applying wrought iron or steel plates to the covering and protection, from the effects of shot and shell, of forts, buildings, floating vessels and other constructions.	2414	27th Sept. 1861	Francis Webb Sheilds.
An improved method of mailing ships of war -	2437	30th Sept. 1861	Wyvill James Christy.
Batteries for the purposes of war - - -	2514	9th Oct. 1861	Robert William Sievier.
Armour plated ships - - - - - -	2600	18th Oct. 1861	William Sadler.
Improvements in armour plates for ships and in securing the same to the sides of a vessel.	2633	21st Oct. 1861	John Toward.
Construction of iron vessels and iron plated ships of war.	2644	23rd Oct. 1861	Alfred Bevan.
Mode of connecting and attaching "armour" plates when applied to ships, forts, batteries and such like.	2681	26th Oct. 1861	Nathaniel Cox.
Construction of sailing ships and other vessels -	2720	30th Oct. 1861	Evan Leigh.
Mode of combining together and securing to the sides of navigable vessels and water batteries armour plates of iron or steel.	2780	5th Nov. 1861	John Beresford Love.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, ship-building, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Protecting ships' bottoms from fouling - -	3023	2nd Dec. 1861	William Pellew Bain.
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
An improved composition for coating metal and wood to preserve them from decay, applicable as a substitute for copper and other sheathing or other compositions now in use for coating ships' bottoms to protect them from the injurious action of water.	3054	5th Dec. 1861	Charles Davis.
Use, application and manufacture of iron or steel as armour for ships or batteries.	3068	7th Dec. 1861	George Clark.
Applying armour or thick plating to ships and other structures.	3086	9th Dec. 1861	William Mason.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
Improvements in armour and in making and applying the same for protecting wood and iron ships of war and batteries.	3182	19th Dec. 1861	William Tate.
IV.—Covering Rollers.			
Construction of covered rollers used in machinery for preparing and spinning fibrous materials -	33	5th Jan. 1861	John Sugden. John Midgley. William Clapham.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials.	189	24th Jan. 1861	Henry Henderson.
An improved cop tube and cover for rollers used in spinning and in apparatus for putting the tubes on the spindles.	1950	6th Aug. 1861	Rudolph Wappenstein.
Machinery and apparatus for burring, carding and combing wool and other fibrous substances.	2980	27th Nov. 1861	Francis Alton Calvert.
COFFEE, COCOA AND TEA; COFFEE-POTS, TEA-FOUNTAINS.			
Improvements in the treatment of vegetable substances and in the preparation of beverages therefrom. (*Communicated by Louis Henry Obert and Jean Baptiste Vasseur.*)	252	30th Jan. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COFFEE, &c.—*continued.*			
Machinery or apparatus for roasting coffee and other seeds and roots and for drying grain. (*Communicated by Robert Harper.*)	259	31st Jan. 1861	John Henry Johnson.
Preserving the aroma and other properties of coffee and cocoa from the effects of the atmosphere.	577	7th March 1861	William Pidding.
An improved mixture and preparation of teas -	708	21st March 1861	James Franks.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For ornamenting caddies.*)	853	6th April 1861	Thomas Goulston Ghislin.
Apparatus for discharging and distributing the contents of teapots, coffee pots or other vessels.	868	9th April 1861	William Henry Beddall.
Apparatus used in making infusions of coffee and other substances.	999	22nd April 1861	Charles Carey.
Tea and coffee urns, coffee pots and other vessels for similar purposes.	1167	8th May 1861	William Wheatcroft Harrison.
An improved coffee mill - - - - -	1513	12th June 1861	Jean Pierre Girard.
Improved machinery for cleaning rice, coffee and other grains or seeds. (*Communicated by Amasa Howe.*)	1922	2nd Aug. 1861	William Edward Newton.
Improvements in apparatus for roasting coffee, which improvements are also applicable to the roasting of cocoa and other vegetable matters.	2186	2nd Sept. 1861	William Müller.
Apparatus for drying grain - - - (*And coffee.*) (*Communicated by Casimir Druart.*)	2302	16th Sept. 1861	William Edward Gedge.
Certain improvements in urns or vessels for holding and supplying hot water, tea, coffee or other liquids separately or conjointly, as also in the stands for the same - - -	3228	26th Dec. 1861	Thomas Simmons. Thomas Timmins.
COFFINS; MOURNING CARRIAGES.			
Funeral or mourning carriages - - -	507	27th Feb. 1861	James Turner Whitgrove.
Improved apparatus for succouring persons interred before life is extinct. (*Communicated by Ramond Maleville.*)	2164	30th Aug. 1861	Hippolyte Lecaudey.
Certain improvements in composite carriages for funeral and other purposes - - -	2209	5th Sept. 1861	John Edward Ridges. James Barker.
COINS AND MEDALS; COINING.			
Combining metals and alloys of metals for the manufacture of coins, checks, vouchers, trade marks and other useful articles, and for ornamental purposes - - - - -	836	5th April 1861	Daniel Stone. Charles Comer, junior.

Subject-matter of Patent	Number of Patent.	Date.	Name of Patentee.
COINS, &c.—*continued.*			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For medallions.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in coining machinery and in apparatus employed for regulating the expansion of elastic fluids.	862	8th April 1861	Henry Wollaston Blake.
A pasteboard, millboard and card-board medal for advertising purposes in lieu of handbills.	1896	30th July 1861	Thomas Saunderson.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard wood and compounds of india-rubber or gutta-percha have hitherto been employed. (*For medallions.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - (*Medals.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
COMBS.			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For combs.*)	853	6th April 1861	Thomas Goulston Ghislin.
COMPASSES; MEASURING ANGLES; SURVEYING; MATHEMATICAL AND GEOMETRICAL INSTRUMENTS; LEVELS.			
An improved construction of instrument for taking observations at sea or on land - - -	102	14th Jan. 1861	William Desilva. Thomas Fletcher Griffith.
Improvements in apparatus for locomotion and in the construction of certain wheels employed therein and of levels used therewith, such improved wheel and level being also applicable for other purposes. (*Communicated by José Gallegos.*)	137	17th Jan. 1861	Michael Henry.
Compass protractors - - - - (*Communicated by Charles B. Wood.*)	156	19th Jan. 1861	William Clark.
An improved stadium or telemeter - - - (*For use of surveyors.*)	402	19th Feb. 1861	Alfred Carter.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COMPASSES, &c.—*continued.*			
Nautical compass	610	12th March 1861	Grégoire Lucien Ripamonti.
Construction of ships' compasses	791	30th March 1861	Carl Adolph Ehrenberg.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For mathematical instruments.*)	853	6th April 1861	Thomas Goulston Ghislin.
A new method and apparatus for ascertaining the distance of distant objects.	1088	1st May 1861	William Browning.
An improvement in the card of compasses	1496	11th June 1861	Samuel Berry Singer.
Instruments for measuring angles and distances	1605	22nd June 1861	Pierre Henry Antoine Constantin Sapia.
Lever measurements on an entirely new principle called level balance	1698	4th July 1861	Johann Kull. Charles Albert Casper.
An improved apparatus for indicating the direction of objects and measuring angles.	1876	26th July 1861	Edward Sang.
Improvements in the nautical compass (*Communicated by Grégoire Lucien Ripamonti.*)	2270	12th Sept. 1861	William Edward Gedge.
The use of aluminum for the construction of mathematical instruments used for geometrical drawing, surveying and nautical purposes, and improvements connected therewith.	3092	10th Dec. 1861	William Ford Stanley.
CONDENSING, COOLING, MAKING ICE.			
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Construction of charcoal and other kilns (*Constructing coolers.*)	297	5th Feb. 1861	George Williams.
Improvements in the heating and cooling surfaces of engines propelled by aëriform fluids. (*Communicated by Auguste Casimir Lehot.*)	338	11th Feb. 1861	Marc Antoine François Mennons.
Machinery or apparatus for the manufacture of bitumenized paper pipes and other similar articles. (*Cooling the pipes.*)	392	16th Feb. 1861	James Horn.
Apparatus applicable for boiling, cooling and fermenting malt liquors, part of which may be applied to other purposes	534	2nd March 1861	Thomas Haigh. Robert Adam Robertson.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan"), and all other woody fibre, also improved apparatus to be employed therefor.	650	15th March 1861	William Lorberg.
Presses for pressing or finishing textile fabrics	665	16th March 1861	Adolphe Drevelle.
Improvements in and connected with steam engines (*Shaping condenser tubes.*)	759	26th March 1861	Thomas Davison. Robert Paterson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, &c.—*continued.*			
Improvements in steam engines and boilers, and in the apparatus connected therewith. (*Condensers.*)	786	30th March 1861	John Cass.
Condensers - - - - - -	880	10th April 1861	Andrew Lamb.
Steam engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
Preparing coal used in the manufacture of artificial fuel. (*Cooling coked coals.*)	1051	26th April 1861	Ferdinand Charles Warlich.
Steam engines and apparatus connected therewith - (*Construction of condensers.*)	1064	27th April 1861	Thomas William Miller.
Steam and water tight joints for fixing tubes in plates, such as are used for surface condensers, distillers, refrigerators, vessels for heating feed water, or tubular boilers. (*Communicated by Horatio Allen.*)	1081	1st May 1861	William Horn.
A mode or method of collecting ammonia from the waste gases arising from the combustion of coal.	1115	3rd May 1861	James Alexander Manning.
A smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bake-houses and other purposes.	1121	4th May 1861	George Rydill.
An improved method of propelling and steering steam vessels, and for a casing about the apparatus constituting therewith a steam condenser -	1201	11th May 1861	George Fowler Jones. James Jones.
Improvements for economising fuel in evaporating and concentrating, chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith.	1462	8th June 1861	Joseph Roman.
Improvements in extracting oil from seeds, and in machinery or apparatus employed therein. (*Communicated by Johann Gottfried Hoffmann.*)	1493	11th June 1861	Edward Thomas Hughes.
Refrigerating the fresh water produced by condensed steam.	1553	18th June 1861	Alphonse René Le Mire de Normandy.
Improvements in furnaces, boilers and condensers of steam engines, part of such improvements being applicable to other purposes.	1572	19th June 1862	John Louch.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.
Construction and arrangement of apparatus for the manufacture of ice and for the refrigeration of solid and fluid masses in general. (*Communicated by Mr. Edouard Blée.*)	1705	4th July 1861	Marc Antoine François Mennons.
Certain improvements in refrigerators for cooling liquids.	1816	19th July 1861	Daniel Gallafent.
Improvements in apparatus for the condensation of steam in marine engines, and in the particular application of parts thereof to the ship. (*Communicated by William Lighthall and Albert Nicholson Chrystie.*)	1849	23rd July 1861	William Clark.
Improvements in refrigerating storehouses and in other structures in which a low temperature is continually or periodically required.	1905	31st July 1861	Alfred Wood.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, &c.—*continued.*			
An improvement in surface condensers - -	2056	19th Aug. 1861	George Thomas Selby.
Apparatus for heating the feed water of steam-boilers, superheating steam, and surface condensation.	2108	23rd Aug. 1861	Samuel Elson.
Railway, ship and other signals - - - (*Condensing apparatus.*)	2174	31st Aug. 1861	Charles Pemberton.
Steam boilers and surface condensers - -	2207	5th Sept. 1861	John Martin Rowan. Thomas Rogers Horton.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines.	2215	5th Sept. 1861	Thomas Scott.
Apparatus for cooling the water employed for condensing steam or other purposes.	2217	5th Sept. 1861	John Napier.
Veneering-presses - - - - - (*Cooling the hollow bed.*)	2362	21st Sept. 1861	Charles Board.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Apparatus whereby to regulate the passage or flow of gas, water and other fluids. (*Injection water to condensers.*)	2426	28th Sept. 1861	Denny Lane.
Condensing-apparatus - - - - -	2502	7th Oct. 1861	George Kelson Stothert.
Condensers and condensing-apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2543	11th Oct. 1861	William Edward Newton.
Condensers and condensing-apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2569	15th Oct. 1861	William Edward Newton.
Improvements in preventing and removing deposit in steam-boilers and other vessels and in the apparatus employed therein. (*And in condensers.*) (*Communicated by Joseph Harrison.*)	2654	23rd Oct. 1861	John Henry Johnson.
Apparatuses for generating, superheating and condensing steam - - - - - -	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Condensation of steam by surface contact - -	2708	29th Oct. 1861	William Holland Furlonge.
Apparatus for raising and supplying water to boilers and for other purposes - - - (*Concentrating solutions.*)	2933	22nd Nov. 1861	Renil De Clercq. Emile Chazelles.
Construction and materials of surface condensers -	2951	25th Nov. 1861	Vaughan Pendred, junior.
Machinery for cooling and freezing water and other fluids. (*Communicated by Edouard Blée.*)	3005	28th Nov. 1861	Jules D'Adhémar de Labaume.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, &c.—*continued.*			
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Construction of condenser.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
Improved condensing apparatus for steam-engines - (*Communicated by Wilhelm Winter.*)	3173	18th Dec. 1861	John Piddington.
Refrigerators for cooling worts or other liquors -	3179	18th Dec. 1861	Charles Pontifex.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam-engines, and for an improved steam trap.	3235	26th Dec. 1861	Richard Needham.
COOKING AND APPARATUS USED IN COOKING.			
Apparatus for the manufacture of certain articles of confectionery and biscuits and other articles from plastic substances.	420	20th Feb. 1861	Thomas Holstead.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*For heating cooking stoves.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
Commissariat ambulance cooking apparatus and appurtenances.	732	23rd March 1861	William Henry Clarke.
Kitchen ranges - - - - -	904	12th April 1861	Joseph Douglas.
An improved cooking-stove - - -	931	16th April 1861	Pierre Gipouloux.
Portable cooking apparatuses - - - (*Communicated by Noel Etienne Aimé Paret.*)	1311	23rd May 1861	Richard Archibald Brooman.
Improvements in heating by means of lamps and in imparting heat to vessels and their contents, also applicable to cooking and to other purposes.	1559	18th June 1861	William Brown Taylor.
Apparatus for suspending and turning meat, fowls and such like articles for roasting.	2172	31st Aug. 1861	Thomas Moreton Jones.
Improvements in compressing and rarefying atmospheric air, with machinery for applying the same to obtain a motive-power, part of which is applicable for cooking-purposes.	2278	13th Sept. 1861	Richard Fell.
Improvements in the process of preserving provisions and in the apparatus employed therein. (*Communicated by Alexandre Lecomte.*)	2386	24th Sept. 1861	George Davies.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately.	2499	7th Oct. 1861	Alexander Chaplin.
Apparatus for the manufacture of gas, parts of which are also applicable for cooking-purposes.	2795	7th Nov. 1861	John Richardson Wigham.
Kitcheners or cooking-ranges - - -	3124	13th Dec. 1861	William Bell.
Improvements in cooking-stoves and ships' ranges - (*Communicated by John Russell.*)	3237	26th Dec. 1861	Joseph Nottingham Palmer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COPYING, TRACING, RULING, DRAWING AND WRITING.			
An improved instrument for writing and printing music.	76	11th Jan. 1861	Paul Laffitte, junior.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For drawing-boards.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Writing and dressing cases - - -	351	12th Feb. 1861	William Oldfield.
Improvements in instruments or a combination of conductors and attachments for transmitting and recording messages in any form of letter or character by means of electricity or electro-magnetism acting either mechanically or chemically, and which invention may also be applied to the transmitting or copying figures, as maps of any form of outline.	400	18th Feb. 1861	Edmund Forman Barnes.
Drawing-instruments - - - - -	706	20th March 1861	Simon Hart Scott.
A new optical apparatus for reproducing and varying all sorts of drawings, which apparatus they call goniometroscope - - - - -	813	2nd April 1861	Adolphe Huray. Herman Leilé.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For writing-cases.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus.	859	8th April 1861	John Clark.
A copying press so called "telegraph press" -	1313	23rd May 1861	Henry Marie Ferdinand Jules Vicomte De la Tour-Du-Breuil. Alexandre Marie Auguste De la Tour-Du-Breuil.
An improved fastening for purses, reticules, bags, belts, bands, pocket-books, cigar, writing and instrument cases and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
An improved dressing and writing case - -	1416	5th June 1861	Oliver Chapman.
Drawing-materials and apparatus for the use of artists - - - - - -	1492	11th June 1861	James Duffield Harding. William Henry Winsor.
Reproduction of forms of objects applicable to the production of printing surfaces. (*Communicated by Louis Kessler and Joseph Alfred Xavier Michiels.*)	1603	21st June 1861	John Henry Johnson.
Construction of drawing-boards - - -	1737	9th July 1861	Edwin Aaron Penley.
Improved apparatus for copying letters or writings and drafts. (*Communicated by Francis Tryon George Heydecker and William Van Anden.*)	1826	19th July 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Improvements in the manufacture of portable or traction steam-engines and in apparatus for cutting joints, heads of connecting rods and other articles - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improved machinery or apparatus for cutting stone of every description. (*Communicated by Pierre Martin.*)	1360	31st May 1861	William Edward Gedge.
Machinery or apparatus for cutting or dividing metal or other sheets or plates.	1371	1st June 1861	Thomas Coradine.
Apparatus for manufacturing bricks and tiles - (*Clay cutting saw.*)	1376	1st June 1861	Louis Bilon. Jean Etienne Jerémie Nappey.
Machinery for sawing wood and other substances -	1523	13th June 1861	The Honorable Cecil Duncombe.
Certain improvements in the manufacture of corks and bungs.	1525	13th June 1861	Thomas Marshall Downing.
Improved machinery for cutting and boring wood and other substances.	1546	17th June 1861	Joseph Lewis.
Certain improvements in machines for planing, boring and turning - - - - -	1584	20th June 1861	James Fletcher. John William Fuller.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	1653	28th June 1861	Joshua William Graham.
Improvements in the production of paper pulp and in bleaching paper pulp and certain fabrics, also an apparatus for cutting wood applicable for carrying out part of the invention. (*Communicated by Marie Anne Pelagie Veronique Cauzique, formerly le Roux.*)	1822	19th July 1861	Michael Henry.
Tools for cutting shives and other conical blocks -	1829	20th July 1861	William Price.
Machinery for cutting wood - - -	1846	23rd July 1861	Robert Thompson.
Machinery or apparatus for turning and planing metals, the tool advancing sideways and cutting in an oblique position.	1854	24th July 1861	Joseph Badard.
Mitre boxes and shooting boards - - -	1880	27th July 1861	Robert Elmy Garrood.
Improved machinery for dressing slates - -	1884	27th July 1861	Charles Edwards Amos. John Francis.
Machinery used in the manufacture of casks -	1899	30th July 1861	Thomas Stokes Cressey.
Apparatus for cutting slates and slabs - -	1911	1st Aug. 1861	Robert Harrison.
New or improved machinery for the manufacture or cutting of corks and bungs - -	1985	9th Aug. 1861	Joseph Griffin. Charles Griffin.
A new or improved apparatus for cutting up and reducing dye and other wood.	2001	12th Aug. 1861	Antoine Garzend.
Apparatus for sawing wood and other substances -	2005	12th Aug. 1861	Vincent Jankowski.
Machinery for cutting, sawing and slicing or planing wood and other substances.	2049	17th Aug. 1861	Philip Walters.
Improvements in machinery for sawing wood -	2220	5th Sept. 1861	Thomas Greenwood.
A new or improved machine for mortising, tenoning, sawing, boring, drilling and grooving wood.	2416	27th Sept. 1861	James Kimberley.
Machinery employed in cutting hollow and solid corks.	2460	2nd Oct. 1861	Edgar Breffit.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
An improvement in the manufacture of umbrellas and parasols, and improvements in machinery to be used in the manufacture of umbrellas and parasols. (*Grooving notches.*) (*Partly communicated by Charles Augustus Van Kirk.*)	2466	3rd Oct. 1861	Thomas Warwick.
Improvements in the manufacture of metal pens and holders, in tools employed therein and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
Improved machinery for planing and shaping wood	2497	5th Oct. 1861	William Squire.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For sawing wood and stone.*)	2599	18th Oct. 1861	William Streather.
Planing machines - - - - - -	2636	22nd Oct. 1861	George England.
Improvements in heating steel and iron and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering saws.*)	2664	24th Oct. 1861	James Chesterman.
Improvements in slate dressing machines for cutting and trimming the edges of slates.	2678	25th Oct. 1861	Henry Gilson.
Machinery for fluting rollers - - -	2698	28th Oct. 1861	William Ryder. Thomas Ryder.
Machinery for cutting or dividing wood into scantling or laths.	2722	30th Oct. 1861	William Cowper.
Machinery for cutting wood - - -	2762	2nd Nov. 1861	Samuel William Worssam.
An improved instrument for cutting pipes and bars of metal.	2868	14th Nov. 1861	William Heap.
Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Communicated by Robert Marcher.*)	2912	20th Nov. 1861	John Henry Johnson.
An improved lath for Venetian blinds - -	3176	18th Dec. 1861	Edmund Pace.
Improvements in apparatus for the manufacture of matches. (*Communicated by Messrs. Francis Lavallée and Francis Gustave Lavallée, junior.*)	3196	20th Dec. 1861	William Clark.
For Cutting Dye Woods, *see* "DYES."			
" " Files, *see* "FILES."			
II.—Cutting Paper, India Rubber and Tobacco; Cutting and Splitting Leather and Cloths; Cutting out Clothing.			
Embroidering or ornamenting woven fabrics, felts or other similar materials. (*Cutting double pile fabrics.*)	314	8th Feb. 1861	Adolphe Drevelle.
Machinery suitable for cutting india-rubber fillets -	467	23rd Feb. 1861	John Macmillan Dunlop.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Manufacturing playing-cards - - -	705	20th March 1861	Marie Joseph Firmin Chappellier.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Improvements in the manufacture of portable or traction steam-engines and in apparatus for cutting joints, heads of connecting rods and other articles - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improved machinery or apparatus for cutting stone of every description. (*Communicated by Pierre Martin.*)	1360	31st May 1861	William Edward Gedge.
Machinery or apparatus for cutting or dividing metal or other sheets or plates.	1371	1st June 1861	Thomas Coradine.
Apparatus for manufacturing bricks and tiles - (*Clay cutting saw.*)	1376	1st June 1861	Louis Bilon. Jean Etienne Jerémie Nappey.
Machinery for sawing wood and other substances -	1523	13th June 1861	The Honorable Cecil Duncombe.
Certain improvements in the manufacture of corks and bungs.	1525	13th June 1861	Thomas Marshall Downing.
Improved machinery for cutting and boring wood and other substances.	1546	17th June 1861	Joseph Lewis.
Certain improvements in machines for planing, boring and turning - - - -	1584	20th June 1861	James Fletcher. John William Fuller.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	1653	28th June 1861	Joshua William Graham.
Improvements in the production of paper pulp and in bleaching paper pulp and certain fabrics, also an apparatus for cutting wood applicable for carrying out part of the invention. (*Communicated by Marie Anne Pelagie Veronique Cauzique, formerly le Roux.*)	1822	19th July 1861	Michael Henry.
Tools for cutting shives and other conical blocks -	1829	20th July 1861	William Price.
Machinery for cutting wood - - -	1846	23rd July 1861	Robert Thompson.
Machinery or apparatus for turning and planing metals, the tool advancing sideways and cutting in an oblique position.	1854	24th July 1861	Joseph Badard.
Mitre boxes and shooting boards - - -	1880	27th July 1861	Robert Elmy Garrood.
Improved machinery for dressing slates - -	1884	27th July 1861	Charles Edwards Amos. John Francis.
Machinery used in the manufacture of casks -	1899	30th July 1861	Thomas Stokes Cressey.
Apparatus for cutting slates and slabs - -	1911	1st Aug. 1861	Robert Harrison.
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CUTTING, &c.—*continued.*			
An improvement in the manufacture of umbrellas and parasols, and improvements in machinery to be used in the manufacture of umbrellas and parasols. (*Grooving notches.*) (*Partly communicated by Charles Augustus Van Kirk.*)	2466	3rd Oct. 1861	Thomas Warwick.
Improvements in the manufacture of metal pens and holders, in tools employed therein and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
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Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For sawing wood and stone.*)	2599	18th Oct. 1861	William Streather.
Planing machines - - - - - -	2636	22nd Oct. 1861	George England.
Improvements in heating steel and iron and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering saws.*)	2664	24th Oct. 1861	James Chesterman.
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Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Communicated by Robert Marcher.*)	2912	20th Nov. 1861	John Henry Johnson.
An improved lath for Venetian blinds - -	3176	18th Dec. 1861	Edmund Pace.
Improvements in apparatus for the manufacture of matches. (*Communicated by Messrs. Francis Lavallée and Francis Gustave Lavallée, junior.*)	3196	20th Dec. 1861	William Clark.
For Cutting Dye Woods, *see* "DYES."			
" " Files, *see* "FILES."			
II.—Cutting Paper, India Rubber and Tobacco; Cutting and Splitting Leather and Cloths; Cutting out Clothing.			
Embroidering or ornamenting woven fabrics, felts or other similar materials. (*Cutting double pile fabrics.*)	314	8th Feb. 1861	Adolphe Drevelle.
Machinery suitable for cutting india-rubber fillets -	467	23rd Feb. 1861	John Macmillan Dunlop.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Manufacturing playing-cards - - -	705	20th March 1861	Marie Joseph Firmin Chappellier.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - - (*Cutting or dividing.*)	765	27th March 1861	Edward Briggs. Samuel Fearnley.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
Machinery for cutting certain fabrics into strips -	1030	25th April 1861	Thomas Taylor.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*Card and pasteboard.*)	1371	1st June 1861	Thomas Coradine.
Machinery or apparatus for cutting paper or other materials.	1418	6th June 1861	Daniel Nickols.
Machinery for splitting, dividing or shaving leather or skins or sheets of manufactured fabrics.	1906	31st July 1861	Joseph Follansbee Flanders.
Improvements in textile fabrics for embroidery trimmings and other ornamental purposes, and machinery employed in making the fabrics into trimmings.	2043	16th Aug. 1861	John Livesey.
Machinery or apparatus for shearing military hat tufts and other similar articles.	2089	21st Aug. 1861	Joseph Marie Murat.
Machinery or apparatus for cutting the selvedges or edges of knitted or other fabrics while being stitched - - - - - -	2192	2nd Sept. 1861	William Campion. Henry Johnson.
Machinery or apparatus for making cigars - - (*Communicated by Albert Reiniger.*)	2251	9th Sept. 1861	John Henry Johnson.
Tools for the manufacture of leather and other rings, washers and laces.	2447	1st Oct. 1861	John William Scott.
An improved combined book marker and paper cutter.	2748	1st Nov. 1861	Andrew Smith.
An improved system or method of cutting out ladies' dresses.	3059	6th Dec. 1861	Charlotte Craddock.
For Cutting Roots, &c., *see* "FOOD FOR CATTLE." „ „ Rags for Paper Making, *see* "PAPER." „ Rasping Dyewoods, *see* "DYES."			
CYLINDERS, ROLLERS, DRUMS; COVERING ROLLERS.			
Machinery for grinding rollers and cylinders covered with card teeth.	15	3rd Jan. 1861	William Heywood.
Construction of covered rollers used in machinery for preparing and spinning fibrous materials -	33	5th Jan. 1861	John Sugden. John Midgley. William Clapham.
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*Cylinder and block.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Improvements in generating burning gases to be applied as a motive-power and in apparatus for the same.	166	21st Jan. 1861	Jean Baptiste Pascal.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials.	189	24th Jan. 1861	Henry Henderson.
Core barrels for casting pipes, cylinders, retorts and other like hollow articles - - - -	194	24th Jan. 1861	Thomas Gibson. William Knighton. Henry Knighton.
An improved machine called a "cross raising gig" used in the dressing of woollen cloth.	242	30th Jan. 1861	John Mellor, junior.
Construction and arrangement of bearings and grease boxes for shafts and axles, applicable also to the bosses of wheels. (*Construction of anti-friction rollers.*) (*Communicated by José Gallegos.*)	345	11th Feb. 1861	John Henry Johnson.
Machinery or apparatus for the manufacture of bituminized paper pipes and other similar articles.	392	16th Feb. 1861	James Horn.
Machinery for treating flax, hemp, New Zealand flax, Spanish or China grass and other vegetable fibres.	511	28th Feb. 1861	Edward Brasier.
Manufacture of glass - - - - -	554	5th March 1861	Tony Petitjean.
Machinery for engraving, stamping or embossing cylinders and other surfaces used in printing and embossing fabrics and other materials -	587	8th March 1861	Robert Leake, junior. William Shields.
Apparatus for lubricating the piston rods, pistons and cylinders of steam-engines and other frictional surfaces of machinery - - -	616	13th March 1861	Benjamin Grundy. Samuel Andrew.
Machinery for cleansing or dressing bass, flax and other vegetable fibres, applicable also to the thrashing of corn and other grain. (*Setting the teeth in drums.*)	654	15th March 1861	Augustus Smith.
Steam-engines and boilers - - - - (*Oiling cylinders.*)	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in steam-engines and boilers and in apparatus connected therewith. (*Lubricating cylinders.*)	786	30th March 1861	John Cass.
Washing-machines - - - - - - (*Rollers.*)	798	1st April 1861	George Edmondson.
Machinery for agricultural purposes - - -	818	3rd April 1861	Thomas Edward Wilson.
Machines for fluting rollers and for shaping metals - - - - - - -	976	20th April 1861	William Ryder. Thomas Ryder.
Looms for weaving stays or corsets and other similar articles. (*Grooved multiple rollers.*) (*Communicated by Alexis Manigot.*)	1003	23rd April 1861	William Clark.
Manufacture of rollers for printing, embossing and otherwise producing designs, patterns, figures and shapes - - - - -	1042	25th April 1861	Hesketh Hughes. Charles Grey Hill.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Machinery or apparatus for the manufacture of sugar. (*Rollers.*)	1095	2nd May 1861	John Charles Wilson.
Improvements in the manufacture of railway wheels, tires and other annular, cylindrical and hollow articles from cast steel or malleable cast iron, and in the machinery or apparatus employed therein - - - - -	1129	4th May 1861	Edward Brown Wilson. William Tijou.
Looms for weaving - - - - - (*Drums for carrying the lags.*)	1158	8th May 1861	Thomas Blackburn. Mark Knowles.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances.	1204	11th May 1861	William Henry Tooth.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses.	1233	14th May 1861	John Chedgey.
Construction of rollers for doubling-frames and other machines.	1281	20th May 1861	George Buckley.
Improvements in the manufacture of fluted rollers for preparing and spinning fibrous materials, and in machinery for the purpose.	1298	22nd May 1861	Joseph Bleasdale.
Manufacture of wrought iron cylinders for the construction of ordnance.	1337	29th May 1861	George Wightwick Rendel.
Top rollers for spinning and drawing frames -	1383	1st June 1861	Thomas Ambler.
Improvements applicable to centrifugal machines - (*Constructing the revolving drums.*) (*Communicated by Jean Adolphe Leon.*)	1399	4th June 1861	David Wilson Thomas.
Manufacture of drawing and delivering rollers used in preparing and spinning fibrous materials.	1456	8th June 1861	William Robertson.
Apparatus used in dressing lace or other fabrics -	1485	10th June 1861	John Budibent Carter.
Machinery or apparatus for plaiting or folding woven fabrics - - - - -	1522	13th June 1861	Samuel Cook. William Henry Hacking.
Machinery or apparatus for raising serrated surfaces on rollers - - - - -	1536	15th June 1861	Thomas Knowles. Peter Aldred. John Haworth.
Machinery or apparatus for manufacturing snuff -	1560	18th June 1861	William Fleming.
Certain improvements in machines for planing, boring and turning - - - - - (*Turning rollers for carding-engines.*)	1584	20th June 1861	James Fletcher. John William Fuller.
Improvements in machines for fulling woollen and other fabrics, and in the method of driving the same. (*Construction of rolls.*)	1615	24th June 1861	James Ferrabee.
Apparatus for re-burning animal charcoal - - (*See* "RETORTS.")	1640	26th June 1861	John Cowan.
Washing, wringing and mangling machines -	1699	4th July 1861	Richard Mills.
Apparatus and fittings connected with steam-engines and boilers.	1750	11th July 1861	James Farron.
Locomotive engines and trains - - -	1757	12th July 1861	William Bridges Adams.
Steam-engines, boilers, furnaces and apparatus applicable thereto - - - - -	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Certain improvements in refrigerators for cooling liquids.	1816	19th July 1861	Daniel Gallafent.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Hot air engines. - - - - - -	1818	19th July 1861	Philander Shaw.
An improved cop tube and cover for rollers used in spinning, and in apparatus for putting the tubes on the spindles.	1950	6th Aug. 1861	Rudolph Wappenstein.
An improved agricultural implement for rolling ridges and furrows or straight work.	2081	21st Aug. 1861	Thomas Lambert.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus - - - - - - - (*Constructing metallic rollers.*)	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Machinery for rolling iron or other metals - -	2218	5th Sept. 1861	John Napier.
Apparatuses for stretching, supporting and uniting telegraph wires. (*Forming rollers.*) (*Communicated by Charles Pougnaire and Joseph Stephane Bourcy.*)	2310	16th Sept. 1861	Richard Archibald Brooman.
Machinery for combing cotton and other fibrous material. (*Communicated by Cullen Whipple and Rufus Stafford.*)	2358	20th Sept. 1861	George Tomlinson Bousfield.
Apparatuses for letting off water from and for admitting oil or other lubricating matter into steam cylinders. (*Communicated by Isidore Duballe.*)	2392	25th Sept. 1861	Richard Archibald Brooman.
Machinery for opening and cleaning cotton and other fibrous materials. (*Constructing feed rollers.*)	2475	4th Oct. 1861	Peter Knowles.
Cylinders or drums and beaters for machines for scutching and preparing flax and other fibres.	2490	5th Oct. 1861	William Rowan.
Beaters and drums used in thrashing-machines -	2594	18th Oct. 1861	John Goucher.
Steam hammers - - - - - -	2611	19th Oct. 1861	Thomas Fearnley.
Improved machinery for the manufacture of metal tubes and cylinders, which is also applicable to other useful purposes - - - -	2614	19th Oct. 1861	James Bourne. Edward Kidd.
Machinery for fluting rollers - - -	2698	28th Oct. 1861	William Ryder. Thomas Ryder.
Machinery or apparatus for preparing grain for brewers. (*Construction of crushing rollers.*)	2710	29th Oct. 1861	Richard Gibbon.
Machinery or apparatus for the manufacture of sugar. (*Construction of rollers.*)	2754	2nd Nov. 1861	John Charles Wilson.
Machinery for preparing cotton to be spun, known as openers, scutchers and carding-engines -	2758	2nd Nov. 1861	Benjamin Brown. Richard Hacking.
Apparatus for goffering or embossing stuffs in high relief.	2804	8th Nov. 1861	Henry Montucci. Ph.Dr.
Equilibrium lubricators for steam cylinders, valve boxes and other similar purposes - -	2905	19th Nov. 1861	John Taylor. Thomas Howard Hepworth.
Rotary engines - - - - - - (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Improved machinery for cutting up linen, cotton, woollen and other rags, fibrous waste or vegetable substances, for various purposes in the industrial arts.	2973	26th Nov. 1861	George Bottomley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Machinery and apparatus for burring, carding and combing wool and other fibrous substances.	2980	27th Nov. 1861	Francis Alton Calvert.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - - - (*Steam cylinder.*)	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Improvements in printing and ornamenting textile fabrics, paper hangings and other materials, and in surfaces and apparatus for such purposes. (*Communicated by Alexandre Adrien Despréaux.*)	3055	5th Dec. 1861	Michael Henry.
Improvements in the manufacture of iron and steel, and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - - (*Constructing the rotating cylinder.*)	3108	11th Dec. 1861	William Henry Tooth. William Yates.
An improvement in cylinders used in printing calicoes and other textile fabrics. (*Communicated by Henry Kündig, George Bertschy and Joseph Porges de Portheim.*)	3203	20th Dec. 1861	Dudley Charles Le Souëf.
Improvements in boilers for the generation of steam, in engines for applying steam for motive-power purposes, and in wheels and ways for steam carriages to run on.	3211	21st Dec. 1861	Fraser Selby.
DENTISTRY; ARTIFICIAL TEETH AND PALATES.			
Improved preparations for the cure and prevention of toothache and the preservation of teeth.	383	15th Feb. 1861	Moses Abraham Prenslan.
Preparing caoutchouc adapted especially to dental purposes. (*Communicated by Corneille Lambert Charles Cassimir Gobert.*)	697	20th March 1861	Richard Archibald Brooman.
Manufacture of rubbers for the human teeth and gums.	788	30th March 1861	William Donald Napier.
Palate and tooth-plates for dental purposes - - (*Communicated by John Mittelhaus.*)	1934	3rd Aug. 1861	Alexander Prince.
An improved odontalgic elixir - - - (*Communicated by Jean Pierre Tajan.*)	1947	6th Aug. 1861	Marc Antoine François Mennons.
Apparatus or instruments for extracting teeth -	2065	20th Aug. 1861	William Fitkin.
An improved instrument for drawing teeth - -	2885	16th Nov. 1861	Eugène D'Estanque.
Artificial teeth - - - - - (*Communicated by Samuel Stockton White.*)	3034	3rd Dec. 1861	William Edward Newton.
Manufacture of beds or palates for the reception of artificial teeth.	3169	18th Dec. 1861	Matthew Cartwright.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DESTROYING INSECTS, CATCHING FLIES.			
Improved means of catching flies - - -	1163	8th May 1861	Raoul Bernard.
An improved impermeable varnish for leather - (*And bellows used in throwing sulphur on vines.*) (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
DISINFECTING, DEODORIZING.			
Improved apparatus for exhausting and compressing air and producing air blasts. (*Applicable as a disinfector.*) (*Communicated by Frederick William Partz.*)	224	28th Jan. 1861	William Edward Newton.
A new process for impregnating the atmosphere with perfuming or purifying vapours.	378	14th Feb. 1861	Eugene Rimmel.
Apparatus for receiving, drying and deodorizing human excrement.	876	9th April 1861	Francis Taylor.
Improvements in the decoloration and disinfection of liquids and in the apparatus to be employed therein, which improvements are also applicable to the manufacture or production of drying oils. (*Communicated by Louis Bouton.*)	1177	9th May 1861	John Henry Johnson.
Treating fatty and oily matters obtained from wash-waters to deprive them of their smell.	1978	8th Aug. 1861	Louis Le Paige.
Preparation, application and manufacture of peat - (*For deodorising pastiles.*)	2058	19th Aug. 1861	William Henry Smith.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Fryatt.*)	2129	26th Aug. 1861	William Edward Newton.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.
An improved means of defecating and purifying cane and other saccharine juices. (*Communicated by Louis Marie Amand Achille de Courson de la Villeneuve.*)	3112	12th Dec. 1861	Marc Antoine François Mennons.
DISTILLING AND RECTIFYING.			
I.—Alcoholic Distillation, Manufacture of Spirituous Liquors.			
Improvements in the processes of making worts and washes in brewing and distilling, and in combination and adaptation of apparatus connected with the same, and for novel apparatus connected with the same. (*Communicated by Edward Felix Andrews.*)	11	2nd Jan. 1861	Elizabeth Burton West.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISTILLING, &c.—*continued.*			
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Improvements in the process of manfacturing a glutinous or viscous substance to be used in dressing textile fabrics and for other such like processes, or in brewing and distilling, and also in the apparatus to be used for the same and similar purposes.	358	12th Feb. 1861	William Maltby.
Improvements in distilling and rectifying and in apparatus employed therein. (*Communicated by Monsieur Ley.*)	529	1st March 1861	Michael Henry.
Steam and water tight joints for fixing tubes in plates such as are used for surface condensers, distillers' refrigerators, vessels for heating feed water or tubular boilers. (*Communicated by Horatio Allen.*)	1081	1st May 1861	William Horn.
Distillation - - - - - -	2085	21st Aug 1861	Andrew Stein.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Fryatt.*)	2129	26th Aug. 1861	William Edward Newton.
Improvements in distilling apparatus. (*Communicated by Edme Alfred Egrot.*)	2202	4th Sept. 1861	Louis Rudolph Bodmer.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately. (*See* "FILTERING.")	2499	7th Oct. 1861	Alexander Chaplin.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - (*For distilling spirits.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Safety lamps - - - - (*For distilleries.*) (*Communicated by Mr. Pierre Dernoncourt.*)	2829	11th Nov. 1861	William Clark.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Apparatus for raising and supplying water to boilers and for other purposes - - (*Concentrating solutions used for distillation.*)	2933	22nd Nov. 1861	Renil De Clercq. Emile Chazelles.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes.	3118	12th Dec. 1861	Augustus Tonnar.
Improvements in the manufacture of spirituous liquors and in apparatus employed therein.	3127	13th Dec. 1861	Eduard Claude Barbotte De Beaulieu.
Blowers or apparatuses for superheating steam and other gases, and for projecting them combined with atmospheric air upon ignited combustible matter. (*In distillation, &c.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISTILLING, &c.—*continued.*			
Treatment and application to various useful purposes of light spirituous liquids. (*See* "OILS OF TAR.")	3175	18th Dec. 1861	Charles Edward Symonds.
Refrigerators for cooling worts or other liquors -	3179	18th Dec. 1861	Charles Pontifex.
For Distilling Water, *see* "FILTERING."			
II.—Bituminous, Resinous and Oleaginous Distillation,			
An improvement or improvements in treating coal and other bituminous minerals and peat for the purpose of obtaining solid and liquid hydrocarbons therefrom.	36	5th Jan. 1861	William Mattieu Williams.
Apparatus for the treatment or distillation of bituminous substances.	486	25th Feb. 1861	James Young.
Improvements in the manufacture of oils and in treating oils and fats for purposes of purifying, decolorizing, clarifying and disinfecting them.	488	25th Feb. 1861	Charles Corroy-Regnault.
Improvements in distilling and rectifying and in apparatus employed therein. (*Communicated by Monsieur Ley.*)	529	1st March 1861	Michael Henry.
The treatment of ammoniacal waters resulting from putrified urines and from products extracted by the distillation of coal. (*Communicated by Messrs. Louis Joseph Frédéric Margueritte and Alfred Lalouël de Sourdeval.*)	1217	13th May 1861	William Clark.
Improvements in obtaining products from coal and in apparatus employed therein.	1382	1st June 1861	William Albert Shepard.
Treatment of fatty and oily matters - -	1410	4th June 1861	Heinrich Ludwig Buff.
Obtaining products from sea weeds - -	1411	4th June 1861	Edward Charles Stanford.
Distillation of solid and liquid combustible matters (*Communicated by Mr. Etienne Charles Zacharie Bouchard.*)	1666	29th June 1861	William Clark.
Treatment of oils obtained by the distillation of bones and other animal matters, for the purpose of obtaining matters which may be used as pigments and dye stuffs.	2474	4th Oct. 1861	James Stuart.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - - (*For distilling tar, &c.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Manufacture of benzole, naphtha, naphthaline, aniline and carbolic acid.	2801	7th Nov. 1861	John Barrow.
Treating fatty and oily matters - - -	2831	11th Nov. 1861	George Fergusson Wilson. George Payne.
Preparing matters to be used in the manufacture of candles.	3030	3rd Dec. 1861	James Leach.
Treatment and application to various useful purposes of light spirituous liquids.	3175	18th Dec. 1861	Charles Edward Symonds.
An improvement or improvements in treating coal and other bituminous minerals and peat in order to obtain solid and liquid hydro-carbons therefrom, and in apparatus to be used for that purpose.	3208	21st Dec. 1861	William Mattieu Williams.
See also "GAS."			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DOCKS, HARBOURS, BREAKWATERS, PIERS, QUAYS, LANDING-STAGES; CANALS; SUBMARINE WORKS.			
Constructing submerged works - - - (*Breakwaters, harbours, piers, jetties.*)	93	12th Jan. 1861	Joseph Gibbs.
Floating structures - - - - (*For support of piers, landing-stages, &c.*) (*Communicated by Thomas Schofield and Robert Schofield.*)	341	11th Feb. 1861	William Edward Newton.
Apparatus employed for raising and supporting ships and vessels - - - -	520	28th Feb. 1861	William Rose. Thomas Crowder.
Constructing roadways under water - -	691	19th March 1861	James Chalmers.
Construction of radial traversing carriages - - (*For forming foundations below water.*)	1128	4th May 1861	Edward Pease Smith.
A floating hydraulic lift stage for raising navigable vessels or other heavy bodies above the surface of the water, and an improved method of "blocking" or "shoreing up."	1499	12th June 1861	William Hammond Walker.
Apparatus for excavating sand and gravel under water.	1534	15th June 1861	Howard John Kennard.
An improved system of building or construction applicable to architectural and other similar purposes. (*Docks, quays, piers, harbours, breakwaters, &c.*)	1053	26th April 1861	Edward Strangman.
An improved mode of overleaping differential levels applicable to canals and to other purposes.	1944	5th Aug. 1861	Frédéric Seiler.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
Improvements in apparatus employed in sinking cylinders and open coffers for forming foundations under water.	3226	24th Dec. 1861	John Cochrane.
DOORS AND GATES; DOOR FURNITURE.			
Certain improvements in shutters - - (*For doors, &c.*)	184	23rd Jan. 1861	James Deakin. John Cresswell.
Improved spring hinges - - - - (*For doors.*) (*Communicated by Mr. Charles François Alexis Arnaud.*)	255	30th Jan. 1861	William Clark.
Apparatus for hanging gates - - -	790	30th March 1861	Daniel Sutton.
Improvements in ports and apparatus for opening and closing the port holes of ships of war, which are also applicable to embrasures of fortifications.	837	5th April 1861	Charles Burn.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For door finger plates and tablets.*)	853	6th April 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DOORS, &c.—*continued.*			
Manufacture of door and other knobs, and the ornaments of the pillars of metallic bedsteads and other articles of like manufacture.	978	20th April 1861	John Whitehouse.
Double action box spring hinges for swing doors -	1455	8th June 1861	John Whines.
An improved clasp or fastener - - - (*For doors.*)	1577	19th June 1861	Peter Pradel.
Construction of iron windows or casements - (*For glass doors.*)	1620	25th June 1861	Louis Pierre.
Door springs - - - - - (*Communicated by John Oliver Blythe.*)	1644	27th June 1861	Henry Coulter.
Improved machinery to be employed in the application of dowels to wood work. (*Making doors.*)	1965	7th Aug. 1861	William Rodrigues Rogers.
Construction of doors, gates and shutters principally applicable for fire-proof buildings.	1973	8th Aug. 1861	William Stratford Hogg.
Construction of gates - - - - -	1982	9th Aug. 1861	Charles Peters Moody.
Preventing wind drafts at the foot of doors and allowing them to open over carpets or other substances without the use of rising hinges.	2080	21st Aug. 1861	Charles Anthony Wheeler.
Rendering columns, girders, doors, shutters and other parts of buildings fire-proof.	2449	1st Oct. 1861	William Stratford Hogg.
Constructing fire-proof doors and window shutters	2509	8th Oct. 1861	George Glover.
An improved spring and fastening applicable to gates, doors and other useful purposes.	2770	4th Nov. 1861	William Thomas Weston.
Manufacture of elastic fabrics - - - (*Springs for doors.*)	2779	5th Nov. 1861	Edward Bowra.
An improved spring door shutter with a moveable lever.	2853	13th Nov. 1861	Louis Rolland.
An improved mode of fastening doors and for other similar purposes.	2915	20th Nov. 1861	Joseph Cooper Croxford.
An improvement or improvements in fastening knobs to doors, drawers and other articles, and in connecting knobs to spindles.	2969	26th Nov. 1861	Robert Harcourt.
DRAINS, SEWERS, GUTTERS; DRAIN PIPES AND TILES; DRAINING; STENCH TRAPS.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Lift pumps for sewer works.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Pumping-engines - - - - - (*For raising water from mines.*)	453	22nd Feb. 1861	Andrew Barclay.
Constructing and draining floors suitable for stables and other places.	566	5th March 1861	Andrew Gibson Corbett.
Improved compositions or cements and methods of applying the same to various parts of buildings and houses where slates, tiles, stones and sheet metals have been used. (*For gutters.*)	783	30th March 1861	John Griffiths.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRAINS, &c.—*continued.*			
An improved method of and apparatus for intercepting and carrying off the sewage of large towns and preventing the defilement of rivers thereby.	1040	25th April 1861	Edward Strangman.
Improved means and apparatus for conducting or forcing the flow of water. (*Screw fastenings for the openings of drains.*) (*Communicated by Charles Douchain.*)	1152	7th May 1861	William Edward Gedge.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For sewers.*)	1269	18th May 1861	Archibald Campbell Ponton.
Excavating machinery - - - - (*Communicated by Messrs. Francis Burgess Scott, James Brayley and John Beman Pitts.*)	1665	29th June 1861	William Clark.
An improved sewer and sink trap - - -	1707	5th July 1861	Benjamin Fowler, junior.
Kilns for baking bricks, tiles and other similar articles. (*Drain pipes.*)	2021	14th Aug. 1861	Alcidalis Auguste Romain Damoiseau.
Machinery or apparatus for making bricks, tiles, drain pipes and other similar articles. (*Gutter tiles.*)	2211	5th Sept. 1861	Peter Effertz.
An improved steam digging machine - - (*For making drainage ditches.*)	2452	2nd Oct. 1861	Denis Rérolle.
Stench traps - - - - -	2554	12th Oct. 1861	Matthew Cartwright.
Means or apparatus for raising water or other fluids (*For draining fens, towns, &c.*)	2714	29th Oct. 1861	John Hayward.
Improvements in machinery or apparatus for making pipes and other articles of earthenware, and in the form of pipes for gas, sewage and other purposes - - - - - (*Communicated by Alfred Delafol.*)	2763	2nd Nov. 1861	Thomas Spencer. Thomas Robinson.
Apparatus for facilitating the cleansing of sewers and other water courses or ways - -	2865	13th Nov. 1861	Henry Robinson Fricker. John Manley.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors - - - - - - (*Pumping water out of mines.*)	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
Method of paving roads and other places - -	3094	10th Dec. 1861	Victor Léon Daguzan.
An improved system of drainage and irrigation for meadow and other land.	3171	18th Dec. 1861	Asmus Petersen.
DRESSING-CASES; HAIR-DRESSING; SHAVING-BRUSHES; PERFUMERY.			
A combined apparatus for combing and cutting the hair of the human head.	73	11th Jan. 1861	Thomas Bromwich.
Writing and dressing cases - - -	351	12th Feb. 1861	William Oldfield.
A new process for impregnating the atmosphere with perfuming or purifying vapours.	378	14th Feb. 1861	Eugene Rimmel.
Purses, bags, reticules, pocket-books, dressing cases and other similar portable receptacles.	522	1st March 1861	John William Mott.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRESSING-CASES, &c.—*continued.*			
An improved dressing and writing case	1416	5th June 1861	Oliver Chapman.
Improvements in the manufacture of shaving brushes	2214	5th Sept. 1861	William Patey, junior. James Richardson.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses. (*For making plaits, in lieu of hair.*)	2880	15th Nov. 1861	Werner Staufen.
An improved mode of constructing dovetail joints (*For dressing-cases.*)	3146	14th Dec. 1861	William Rodrigues Rogers.
DRYING AND STRETCHING; EXPRESSING MOISTURE.			
Improvements in apparatus for drying fabrics and other articles.	22	4th Jan. 1861	Prosper Pimont.
A new and useful or improved machine either for supporting clothes or other articles to be dried or for other useful purposes.	69	10th Jan. 1861	Benjamin Brown Hawse.
Machinery or apparatus for tentering or stretching and drying woollen or other textile fabrics, also for drying warps, yarns or fibrous substances.	70	11th Jan. 1861	Charles Senior.
Machinery or apparatus for roasting coffee and other seeds and roots and for drying grain. (*Communicated by Robert Harper.*)	259	31st Jan. 1861	John Henry Johnson.
Construction of steam generators employed for heating, drying, evaporating and other purposes. (*Communicated by Julien Fradet.*)	339	11th Feb. 1861	Marc Antoine François Mennons.
Manufacturing playing-cards	705	20th March 1861	Marie Joseph Firmin Chappellier.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Apparatus for receiving, drying and deodorizing human excrement.	876	9th April 1861	Francis Taylor.
Method of and apparatus for drying and preparing grain, seeds or berries for food and other purposes	892	11th April 1861	Thomas Don. Thomas Smith. Loxley Horsfield.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.
Means or apparatus for stretching fabrics during the processes of finishing fabrics.	1046	26th April 1861	John Lunn. George Hiley. John Lisle.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
Improved apparatus for boiling sugar (*"Simoon" for drying cane trash.*) (*Communicated by Hector Lavignac.*)	1155	7th May 1861	George Davies.
Improvements in machinery or apparatus for drying textile fabrics and materials, which improvements are also applicable in scouring or dyeing of the said materials.	1235	15th May 1861	Joseph Wooller.
Sizing, drying and warping yarns for weaving	1286	20th May 1861	George Edmond Donisthorpe.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRYING, &c.—*continued.*			
Means or apparatus for finishing and drying thread, twine, cords and ropes - - -	1356	31st May 1861	William Bywater.
Improvements in drying, sweetening, purifying and otherwise improving wheat and other grain, and in apparatus for the same.	1436	6th June 1861	Alfred Smith.
Improved means or apparatus for drying, sifting and cleansing grain and other agricultural produce. (*Communicated by Antoine Auguste Dubard-Dutarbre.*)	1589	20th June 1861	William Edward Gedge.
An improved method of partially drying peat before removing the same from the bog.	1593	20th June 1861	Charles Hodgson.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	3rd July 1861	John Petrie, junior.
An improved mode of and apparatus for heating air or for desiccating wet or moist substances. (*Communicated by Jérôme Eugène Tourne.*)	1796	17th July 1861	Joseph Heape Butterworth.
Improvements in the drying of bricks and other articles manufactured of fire clay or common clay, and in the construction of drying-rooms for such purpose.	1860	24th July 1861	Adolf Julius Diedrich Seitz.
Glass furnaces - - - - - (*Utilizing waste heat for drying fuel.*)	1928	3rd Aug. 1861	Charles Schinz.
Improvements in the material and preparation of the material and apparatus for making potash, pearlash and caustic potash of commerce. (*Construction of drying-floors.*)	2238	7th Sept. 1861	Nicholas Doran Proby Maillard.
Apparatus for drying grain - - - (*Communicated by Casimir Druart.*)	2302	16th Sept. 1861	William Edward Gedge.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus.	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - - (*For drying.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Improvements in beating, stretching and drying fabrics and in the apparatus employed therein, part of which apparatus is also applicable for thrashing linseed. (*Partly communicated by William Aldon.*)	2689	26th Oct. 1861	James Lee Norton.
Apparatuses for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
Machinery or apparatus for stretching, glossing and finishing silk. (*Communicated by James Leigh.*)	2849	13th Nov. 1861	William Henry Hammersley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRYING, &c.—*continued.*			
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.
Facilitating the drying of wet or damaged cotton or wool or other similar fibrous material.	3089	10th Dec. 1861	Goldsmith Tear.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes.	3118	12th Dec. 1861	Augustus Tonnar.
Apparatus for desiccating grain, seeds and other articles.	3178	18th Dec. 1861	James Bannehr.
Improvements in apparatus for drying wool and other fibres and substances.	3223	24th Dec. 1861	Edward Barnard Sampson.
DYEING TEXTILE FABRICS, YARNS AND MATERIALS; FIXING COLOURS; MORDANTS.			
Improvements in mordanting and in the manufacture of products to be used as mordants and otherwise - - - - - -	139	18th Jan. 1861	Joseph Townsend. James Walker.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Dyeing and printing textile materials and fabrics -	612	12th March 1861	Robert Hodgson Gratrix.
Fixing colouring matter, more especially those derived from aniline or other similar bases, on fibrous materials and textile fabrics - -	682	18th March 1861	John Stevenson Miller. Thomas Paterson Miller.
Producing combinations of certain colors on cotton fabrics.	693	20th March 1861	Thomas Brooks.
Dyeing and printing textile materials and fabrics -	701	20th March 1861	Nathaniel Lloyd. John Gallemore Dale.
Improvements in treating yarns and threads of silk and other fibrous materials for purposes of restoring colour thereto and improving their quality and appearance, also in apparatus employed in operating on yarns and threads. (*Communicated by Charles Torne.*)	704	20th March 1861	Michael Henry.
Improved means of coloring enamelled leather, leather cloth, enamelled metal and other enamelled surfaces. (*Communicated by Adrien Jacques Basset.*)	722	22nd March 1861	Richard Archibald Brooman.
The manufacture of paper, linen, cotton or other fabrics prepared with a preparation of blue, to be used for the purpose of washing or other purposes.	740	25th March 1861	William Edward Manby.
Washing, wringing and mangling machines, applicable also for dyeing or bleaching purposes, to be called "The Nottingham washing-machine"	787	30th March 1861	George Barton. Thomas Soar.
A new method of colouring as a substitute for saffron in the manufacture of cheese pastes and other articles in which saffron is employed.	797	1st April 1861	Gregorio Russo.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYEING, &c.—*continued.*			
Mode of applying coloring matter to certain textile fabrics and yarns in the process of dyeing and printing.	799	1st April 1861	John Lowe.
Fixing coloring matters on textile fabrics and fibrous materials - - - - -	835	4th April 1861	John Stevenson Miller. Thomas Paterson Miller.
Certain new chemical combinations, and for the application thereof to fixing aniline and pigment colours in printing and dyeing, to tanning, waterproofing and other industrial purposes. (*Communicated by Doctor Francis Leopold Sonnenschein.*)	1079	30th April 1861	Jacques Meyer.
Coloring matters derived from napthylamina, binitronapthalina and trinitronapthalina, and application of such coloring matters to the dyeing and printing of fabrics.	1087	1st May 1861	François Zacharie Roussin.
Means and method of fixing colors in connection with the printing and dyeing of woven fabrics and yarns.	1092	1st May 1861	Robert Thomson Pattison.
Improvements in machinery or apparatus for drying textile fabrics and materials, which improvements are also applicable in scouring or dyeing of the said materials.	1235	15th May 1861	Joseph Wooller.
Improvements in arranging sizing houses, brewhouses, dye houses and other houses and chambers to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Dyeing and printing velvets, velveteens and other fabrics with floated threads - - -	1547	17th June 1861	Thomas Mellodew. Charles William Kesselmeyer. John Mayo Worrall.
Apparatus for washing, cleansing, scouring, getting up, dyeing, boiling and steaming.	1755	11th July 1861	Henry Ashwell.
An improved manufacture of manure - - (*And animalizing cotton.*)	2159	30th Aug. 1861	Alexandre Jaille.
An improved method of producing mixed-colored woollen and other threads. (*Communicated by Stanislas Vigoureux.*)	2253	9th Sept. 1861	Richard Archibald Brooman.
Improvements in preparing blue colour and in apparatus for applying such colour to water.	2700	28th Oct. 1861	George Mowbray Gilbert.
Certain improvements in dyeing and in apparatus employed in dyeing.	2764	4th Nov. 1861	Joseph Bowden.
Improvements in the preparation and treatment of vegetable fibres the better to adapt them for combining, working up and dyeing with different fibres, such as silk, wool, cotton and others, and in apparatus used in such treatment or preparation.	3046	4th Dec. 1861	Charles Samuel Henry Hartog.
Dyeing and printing certain descriptions of woven fabrics - - - - -	3075	7th Dec. 1861	Thomas Mellodew. Charles William Kesselmeyer. John Mayo Worrall.
A new process for colouring smoking pipes -	3273	31st Dec. 1861	Jean Baptiste Cretal.

See also "DYES."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Dyes and Printing-Colours.			
Manufacture of colouring matters and pigments from coal-oil, raw naphthaline, and from the waste lime from gas works.	27	5th Jan. 1861	Louis Charles Emile Vial.
Manufacture of dyes and colouring matters -	67	10th Jan. 1861	Charles Hanson Greville Williams.
Preparing colouring matters for dyeing and printing (*Partly communicated by Mr. Georges de Laire.*)	97	12th Jan. 1861	Charles Adam Girard.
Obtaining colouring matters - - -	101	14th Jan. 1861	Vincent Hall.
Improvements in mordanting and in the manufacture of products to be used as mordants and otherwise - - - - - -	139	18th Jan. 1861	Joseph Townsend. James Walker.
Machinery or apparatus for pulverizing clay and other materials. (*Dye woods.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Preparation of coloring matters for dyeing, staining or printing fabrics, stuffs and yarns of cotton, silk or wool or such like substances.	316	8th Feb. 1861	Michael John Stark.
Preparation of alkaline and earthy cyanides - (*Obtaining Prussian blue.*) (*Communicated by Mr. Louis Joseph Frederic Margueritte and Mr. Alfred Laloüel de Sourdeval.*)	408	19th Feb. 1861	William Clark.
Preparation of red dyes - - - - -	456	23rd Feb. 1861	James Martin.
Manufacture of colour adapted for dyeing, painting and other uses.	750	25th March 1861	Frederick Versmann.
Coloring-matters derived from napthylamina, binitronapthalina and trinitronapthalina, and application of such coloring matters to the dyeing and printing of fabrics.	1087	1st May 1861	François Zacharie Roussin.
Certain materials to be used in the process of dyeing and printing.	1238	15th May 1861	John Riley.
Preparation or manufacture of artificial alizarine - (*Communicated by Mr. François Zacharie Roussin.*)	1266	17th May 1861	William Clark.
Obtaining products from sea weeds - - (*Aniline and red colouring matter or algine.*)	1411	4th June 1861	Edward Charles Stanford.
Procuring a colouring matter from the refuse of iron stone called colour spert.	1722	6th July 1861	William Pask.
Extracting the fibres from genista scoparia (broom) and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Formier de la Provotais.
Preparing red, purple and certain other dyes -	1893	29th July 1861	Wentworth Lascelles Scott.
An improved process for producing colouring matters or pigments from manganese. (*Communicated by Paul Morin.*)	1935	3rd Aug. 1861	William Edward Newton.
A new or improved apparatus for cutting up and reducing dye and other wood.	2001	12th Aug. 1861	Antoine Garzend.
A new and economical method of producing dynamic electricity thereby obtaining useful chemical compounds. (*Obtaining nitrate of aniline, &c.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYES, &c.—*continued.*			
Treatment of oils obtained by the distillation of bones and other animal matters for the purpose of obtaining matters which may be used as pigments and dye stuffs.	2474	4th Oct. 1861	James Stuart.
Improvements in preparing blue colour and in apparatus for applying such colour to water.	2700	28th Oct. 1861	George Mowbray Gilbert.
Certain improvements in dyeing and in apparatus employed in dyeing.	2764	4th Nov. 1861	Joseph Bowden.
Manufacture of benzole, naphtha, napthaline, aniline and carbolic acid.	2801	7th Nov. 1861	John Barrow.
Manufacture of certain colours for printing and dyeing fabrics.	3021	2nd Dec. 1861	Alexander Schultz.
An improved mode of obtaining colouring matter applicable for dyeing skins, silk, wool and other fibrous materials. (*Communicated by Edward Smith.*)	3195	20th Dec. 1861	Vasco D'Almeida.
Improvements in the manufacture of colouring matters - - - - - - -	3225	24th Dec. 1861	François Laurent. John Casthelaz.
EARTHENWARE AND PORCELAIN; POTTERY KILNS; POTTERS' SLIP; GLAZES; CERAMIC WARES.			
An improved mode of stoppering or closing canisters, bottles, or other vessels. (*Pots, &c.*)	96	12th Jan. 1861	Marie Virginie Boquet.
Furnaces - - - - - - - (*For firing pottery.*)	167	22nd Jan. 1861	Charles William Siemens. Frederick Siemens.
Machinery or apparatus for pulverizing clay and other materials. (*For making earthenware.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
An improvement in dinner plates - - - (*Communicated by William Henry Towers and John Hazard Browning.*)	225	28th Jan. 1861	William Edward Newton.
Manufacture of white lead, zinc white, and glazing or potters' lead.	376	14th Feb. 1861	Thomas Cobley.
Apparatus for the manufacture of articles of earthenware and of other plastic materials.	470	23rd Feb. 1861	Thomas Spencer.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*For manufacture of earthenware.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
An improved method of fixing lac and lac varnishes upon glass and ceramic ware. (*Communicated by Albert Constant Gallais.*)	804	1st April 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EARTHENWARE, &c.—*continued.*			
Producing ornamented surfaces of metal and other materials. (*To resemble Wedgwood ware.*)	974	19th April 1861	Henry Parkes.
Ornamenting porcelain and other earthen-wares and glass. (*Communicated by Samuel Daniel.*)	982	20th April 1861	William Clark.
Construction of vats and similar vessels for containing liquids.	1240	15th May 1861	Henry Doulton.
An improved crushing and pulverizing machine - (*For porcelain clay.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Manufacture of panels of ceramic or pottery ware -	1590	20th June 1861	Antoine Nicolas Lesueur.
Production of chromo-lithographic impressions upon glass, porcelain and other similar material.	1619	25th June 1861	Jules Lafon.
An improved process for the manufacture of fluo-silicates and silicates of lead and baryta, and for the application of the same to various purposes in the arts and manufactures. (*Porcelain glaze.*)	1732	8th July 1861	Thomas Cobley.
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same.	1772	15th July 1861	Thomas Cobley,
Manufacture of glass, pottery, porcelain and other ceramic and plastic wares - - - -	1775	15th July 1861	James Cane Coombe. James Wright.
An improved process for the production or manufacture of fluo-silicates of tin, zinc and baryta, and their application as pigments for glazing, enamelling and in the manufacture of glass.	1776	15th July 1861	Thomas Cobley.
An improved mode of manufacturing candle moulds (*From pulverised clay.*)	1916	1st Aug. 1861	Matthew Pratt.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones, and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.
Producing on porcelain and other ceramic products, on glass, Venetian enamels, and on metallic surfaces designs in colours and in gold, silver and other metals. (*Communicated by Franz Kosch.*)	2009	13th Aug. 1861	Joseph Jacob.
Improvements in the manufacture of stones, bricks, tiles, slabs, statuary and such like materials, and in the method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - (*Terra-cotta casts.*)	2335	19th Sept. 1861	James Cane Coombe. James Wright.
Garden pots - - - - - -	2670	25th Oct. 1861	Charles Neale May.
Decorating or printing upon china, porcelain, earthen and other like wares. (*Communicated by Joseph Robert Prévost.*)	3107	11th Dec. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EARTHENWARE, &c.—*continued.*			
Blowers or apparatuses for superheating steam and other gases, and for projecting them combined with atmospheric air upon ignited combustible matter. (*For firing china and earthenware.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
ELECTRICITY, GALVANISM AND MAGNETISM, AND THEIR APPLICATION.			
Machinery or apparatus for obtaining motive-power (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Improved means of communication on railways for the prevention of accidents.	146	19th Jan. 1861	William Crozier.
Improvements in the manufacture of woven fabrics and in the machinery employed therein. (*Communicated by Monsieur Eugène Mouline.*)	278	2nd Feb. 1861	Edward Thomas Hughes.
A railway break - - - - - -	343	11th Feb. 1861	William Saint Thomas Clarke.
An improved method of treating needles used in sewing and other machines, applicable also to those parts of such machines that hold the needles, and applicable to all other descriptions of needles and to scissors and to thimbles treated in like manner.	416	20th Feb. 1861	Benjamin Nicoll.
Application of electricity for communicating by signals with carriages in motion on railways.	448	22nd Feb. 1861	Albert Horwood.
Electro-magnetic engines for obtaining and applying motive-power.	449	22nd Feb. 1861	John Reeves.
Photography - - - - - - (*Communicated by Gaspard Félix Tournachon called Nadar.*)	508	27th Feb. 1861	Michael Henry.
Apparatus for administering medicated and voltaic baths. (*Communicated by Edmond Hiffelsheim, Gustave Hagen and Paul Baudet.*)	567	5th March 1861	John Henry Johnson.
Nautical compass - - - - - -	610	12th March 1861	Grégoire Lucien Ripamonti.
An improved electro-galvanic friction brush - - (*Communicated by Julius Imme.*)	669	16th March 1861	Alexander Prince.
An improved method of enabling the guard or other person to communicate with the engine driver, or vice versa, in railway carriages or railway trains or similar conveyances, by means of electricity.	712	21st March 1861	Charles Taylor, junior.
Improvements in electric telegraphs and in apparatus connected therewith. (*Sounding; indicating speed of ships, &c.*)	734	23rd March 1861	William Thomas Henley.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires. (*Stopping machinery by electricity.*)	924	15th April 1861	Thomas Miller.
Construction of electric targets for rifle and gun practice.	1023	24th April 1861	Frederic Newton Gisborne.
Obtaining and applying electricity for telegraphic and other purposes.	1147	7th May 1861	Hermann Hirsch.
Construction of electric targets for rifle and gun practice.	1246	16th May 1861	Frederic Newton Gisborne.
Obtaining electric currents for telegraphing purposes	1273	18th May 1861	Desmond Gerald Fitzgerald.
Batteries for producing voltaic electricity together with certain metallic products.	1274	18th May 1861	Desmond Gerald Fitzgerald.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes.	1322	25th May 1861	Edward Henry Cradock Monckton.
Obtaining and applying magnetic motive-power -	1341	29th May 1861	Edward Henry Cradock Monckton.
Apparatus for regulating the pressure of gas - - (*Communicated by Henri Girond.*)	1350	30th May 1861	John Henry Johnson.
Improvements in the means of and apparatus for indicating the course to be steered in ships at sea, and in galvanic batteries to be used in some cases therewith.	1378	1st June 1861	Frederic Newton Gisborne.
An improved electro-thermometrical alarum -	1443	7th June 1861	Hyppolite Auguste Balsac.
Construction of electrical piles - - -	1503	12th June 1861	Jean Armand Callaud.
Plummets and gauges for indicating the depth and the height or level of liquids.	1545	17th June 1861	David Blair White.
Electro-magnetic engines - - - - - (*Communicated by George Beardslee.*)	1567	18th June 1861	William Edward Newton.
Certain new alloys of silver with other metals and the processes employed in their manufacture. (*Communicated by Henri Catherine de Ruolz.*)	1792	16th July 1861	Charles Denton Abel.
Engines for obtaining motive-power by an explosive mixture of inflammable gases and air. (*Communicated by Francisque Million.*)	1840	22nd July 1861	William Edward Newton.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
Railway breaks - - - - - -	1995	10th Aug. 1861	William Saint Thomas Clarke.
Improvements in tanning and in the apparatus employed therein. (*Communicated by Yves Auguste Rehm.*)	2037	15th Aug. 1861	Augustin François Menard.
Improvements in operating upon railway signals and in indicating their position by means of electricity - - - - - -	2069	20th Aug. 1861	Samuel Whitaker. Ralph Augustine Jones.
A new and economical method of producing dynamic electricity thereby obtaining useful chemical compounds. (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Improvements in apparatus for signalling on railways by means of electricity. (*Communicated by Eugene Vincenzi.*)	2234	6th Sept. 1861	Michael Henry.
Improved automatic electric signals to prevent collisions on railroads and railways.	2292	14th Sept. 1861	Frederic Barnett.
Batteries for obtaining electric currents and the products therefrom - - - - -	2298	14th Sept. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Improvements in electro-magnetic engines for obtaining and applying motive-power.	2303	16th Sept. 1861	John Reeves.
Improvements in electro-magnetic engines for obtaining and applying motive-power.	2425	28th Sept. 1861	John Reeves.
Improvements in magnetic and electric telegraph apparatus, which are also applicable to other purposes. (*Constructing voltaic batteries.*)	2464	3rd Oct. 1861	William Thomas Henley.
Improvements in machinery and apparatus for raising ships and other vessels out of the water for the purposes of examination, cleaning or repair, some of which are applicable to the docking of vessels for the same purposes.	2467	3rd Oct. 1861	Henry Law.
Apparatus for preventing or lessening the slip of the driving wheels of locomotive engines. (*Communicated by Samuel Thompson Armstrong and Jared Wilson Post.*)	2517	9th Oct. 1861	Edward Haslewood.
Improvements in the construction of apparatus for signalling on railways, by which improvements the signalling apparatus is rendered self registering or recording, and also applicable for measuring and recording the speed of passing trains and the time of their passage, part of which improvements is applicable for recording the speed of trains where signalling is not required -	2606	18th Oct. 1861	Charles Cheyne. Thomas Beeby Moseley.
Improvements in apparatuses for the production of galvanic and magneto-electric currents, and in machinery employed in making some of the apparatuses.	2656	23rd Oct. 1861	Isac Louis Pulvermacher.
Improvements in magnets, induction coils, and in insulating wire and metal for electric and other purposes - - - - - -	2661	24th Oct. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Improved electric danger signals for railways and other cognate purposes.	2682	26th Oct. 1861	Frederic Barnett.
Electroplating or depositing metals - - (*Communicated by Jabez Ellis Walcott.*)	2784	5th Nov. 1861	George Tomlinson Bousfield.
A vessel and gun or guns connected therewith for use in naval warfare.	2805	8th Nov. 1861	Charles William Siemens.
Improvements in railway signal apparatus for the prevention of the collision of trains. (*Communicated by Messrs. Auguste Lucien Vérité and Julien Stéphane Bazin.*)	2807	8th Nov. 1861	William Clark.
The application of electricity in refining cast iron for the purpose of converting it into wrought iron or steel with or without the addition of other agents. (*Communicated by François Alphonse Adéodat Dufournel.*)	2850	13th Nov. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
A new and improved electro-voltaic pocket battery (*Partly communicated by Henry Palmer.*)	3100	10th Dec. 1861	John Washington Agnew.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
An improved mode of copying writings, drawings, prints and similar objects.	3144	14th Dec. 1861	Ferdinand Kohn.
Improved apparatus for obtaining motive-power from explosive compounds. (*Communicated by Eugène Barsanti and Felix Matteucci.*)	3270	31st Dec. 1861	William Edward Newton.
See also "ELECTRO-PLATING." For Electric Telegraphs, *see* "TELEGRAPHS." For Magnetic Compasses, *see* "COMPASSES."			
ELECTRO-PLATING AND GALVANIZING; ELECTROTYPING; DEPOSITING METAL BY ELECTRICITY.			
Certain improvements in coating metals and alloys of metals - - - - - -	44	7th Jan. 1861	William Bagley. William Mincher.
Preparation of non-conducting substances for the deposition thereon of metals by electric action.	145	19th Jan. 1861	Bernard Piffard.
Improvements in the decomposition of the compounds of aluminium and in coating metals with aluminium or its alloys. (*Communicated by Louis Le Chatelier.*)	1214	13th May 1861	Thomas Bell.
An improvement or improvements in producing designs in enamel on articles of brass and the alloy called German silver.	1259	17th May 1861	Samuel Tearne.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Electro-plating.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Constructing casks, tubs and other like vessels whereby to render them watertight. (*Communicated by Mr. Louis Désiré Trannin.*)	1469	8th June 1861	William Clark.
Construction of electrical piles - - (*For galvano-plastic work.*)	1503	12th June 1861	Jean Armand Callaud.
Electro-magnetic engines - - - (*For electrotyping.*) (*Communicated by George Beardslee.*)	1567	18th June 1861	William Edward Newton.
Spring balances or weighing apparatus - - (*Galvanising the cases.*)	2025	14th Aug. 1861	Thomas Silvester.
An improved mode of manufacturing gold dials - (*Electrotyping.*)	2040	15th Aug. 1861	Julian Faucherre.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRO-PLATING, &c.—*continued.*			
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Means of obtaining and producing printing-surfaces. (*Communicated by Alphonse Edouard Aufrey and François Germain Léopold Tabar.*)	2699	28th Oct. 1861	William Clark.
Improvements in the manufacture of metallic tubes and in coating or plating metals.	2944	23rd Nov. 1861	John Weems.
The application of certain electro-deposits to the coating or finishing of the stretchers, ribs and other metal portions of umbrellas and parasols	3074	7th Dec. 1861	Thomas Fearn. Thomas Cox, junior.
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.
An improvement in cylinders used in printing calicoes and other textile fabrics. (*Communicated by Henry Kündig, George Bertschy and Joseph Porges de Portheim.*)	3203	20th Dec. 1861	Dudley Charles Le Souëf.
Improvements in the method of treating steel for the manufacture of crinoline.	3236	26th Dec. 1861	Henry Dawes.
EMBOSSING; PRODUCING RAISED PATTERNS.			
An improved mode of manufacturing fabrics for useful and ornamental purposes. (*Embossed.*)	168	22nd Jan. 1861	Christopher Duckworth.
Carving or figuring wood (*Communicated by Emile Constant Adrien Bréhon.*)	293	4th Feb. 1861	Richard Archibald Brooman.
Machinery for engraving, stamping or embossing cylinders and other surfaces used in printing and embossing fabrics and other materials	587	8th March 1861	Robert Leake, junior. William Shields.
Improvements in securing or fastening envelopes, letters or other sealed packets, and in applying ornaments to the same.	677	18th March 1861	Charles Iles.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*In imitation of cameos.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus.	859	8th April 1861	John Clark.
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EMBOSSING, &c.—*continued.*			
Manufacture of rollers for printing, embossing and otherwise producing designs, patterns, figures and shapes	1042	25th April 1861	Hesketh Hughes. Charles Grey Hill.
Apparatus for embossing and taking casts or matrices for stereotype and other purposes.	1056	26th April 1861	James Dellagana.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For reliefs.*)	1269	18th May 1861	Archibald Campbell Ponton.
Manufacture of boots, shoes and other coverings for the feet, made of india-rubber, gutta-percha and like substances. (*Embossing or corrugating.*)	1335	28th May 1861	Egbert Reuben Burnham.
Certain improvements in the manufacture of corks and bungs. (*Embossing.*)	1525	13th June 1861	Thomas Marshall Downing.
Reproduction of forms of objects, applicable to the production of printing-surfaces. (*Copies of bas-reliefs.*) (*Communicated by Louis Kessler and Joseph Alfred Xavier Michiels.*)	1603	21st June 1861	John Henry Johnson.
Improvements in stamping, endorsing and embossing machines	1957	6th Aug. 1861	John Turner. Robert Buchanan Dunnett.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes.	2434	30th Sept. 1861	Benjamin George George.
Improvements in the manufacture of metal pens and holders, in tools employed therein, and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Means of obtaining and producing printing-surfaces (*Communicated by Alphonse Edouard Aufrey and François Germain Léopold Tabar.*)	2699	28th Oct. 1861	William Clark.
Apparatus for goffering or embossing stuffs in high relief.	2804	8th Nov. 1861	Henry Montucci. Ph.Dr.
Production of relief designs on metallic surfaces for general printing, goffering and embossing purposes. (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
ENAMELLING, ENAMELS.			
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Forming moulds coated with enamel.*)	470	23rd Feb. 1861	Thomas Spencer.
An improvement in the manufacture of "card cloth" used for carding cotton, wool and other fibrous substances (*Applying an enamel.*)	860	8th April 1861	Joseph Walker. James Barnes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ENAMELLING, &c.—*continued.*			
A mode of preparing or making enamel applicable to various purposes.	1131	6th May 1861	Joseph Victor Vignon.
An improvement or improvements in producing designs in enamel on articles of brass and the alloy called German silver.	1259	17th May 1861	Samuel Tearne.
A new or improved manufacture of street plates, name plates and other plates or surfaces having inscriptions or devices thereon.	1749	11th July 1861	John Clutton Blair Salt.
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same. (*Enamel.*)	1772	15th July 1861	Thomas Cobley.
An improved process for the production or manufacture of fluo-silicates of tin, zinc and baryta, and their application as pigments for glazing, enamelling, and in the manufacture of glass.	1776	15th July 1861	Thomas Cobley.
Manufacture of enamelled cards - - -	1820	19th July 1861	Richard Charles Newbery.
An improvement or improvements in backing or covering the backs or foundations of raised and cut piled fabrics - - - -	1988	9th Aug. 1861	Charles Lee. Thomas Kemp Mace.
Producing on porcelain and other ceramic products, on glass, Venetian enamels, and on metallic surfaces designs in colours and in gold, silver and other metals. (*Communicated by Franz Kosch.*)	2009	13th Aug. 1861	Joseph Jacob.
Manufacture of collars and wristbands - -	2263	12th Sept. 1861	John Albert Dauncey.
Machinery for enamelling moulded and other surfaces. (*Communicated by Robert Marcher.*)	2715	29th Oct. 1861	John Henry Johnson.
Certain improvements in the construction of cables or chains for telegraphic and other purposes and for machinery connected therewith. (*Enamelling pipes.*)	2755	2nd Nov. 1861	Thomas Walker.
ENGRAVING AND ETCHING; PRODUCING SUNK DEVICES.			
Improvements in the ornamenting of glass -	208	26th Jan. 1861	Charles Bishop.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For bas reliefs.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Machinery for engraving, stamping or embossing cylinders and other surfaces used in printing and embossing fabrics and other materials -	587	8th March 1861	Robert Leake, junior. William Shields.
An improvement or improvements in ornamenting metallic tubes. (*Impressing devices from rolls.*)	826	4th April 1861	James Thomas Grice.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ENGRAVING, &c.—*continued.*			
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.
Ornamenting porcelain and other earthen-wares and glass. (*Communicated by Samuel Daniel.*)	982	20th April 1861	William Clark.
Reproduction of forms of objects applicable to the production of printing-surfaces. (*Copies of engravings.*) (*Communicated by Louis Kessler and Joseph Alfred Xavier Michiels.*)	1603	21st June 1861	John Henry Johnson.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass. (*Etching.*)	1936	3rd Aug. 1861	Joseph Lewis.
Means of producing raised chasing on copper, silver and Britannia metal, by the application of pressure - - - - - - -	2239	7th Sept. 1861	John Carpindale. Thomas Middleton.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - -	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Means of obtaining and producing printing-surfaces. (*Communicated by Alphonse Edouard Aufrey and François Germain Léopold Tabar.*)	2699	28th Oct. 1861	William Clark.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
ENVELOPES.			
The feeding of a machine for folding of envelopes and likewise for laying down the lappets previous to the second descent of the plunger - -	55	9th Jan. 1861	Joseph Boulton. John Chapman Boulton.
Improvements in envelopes and letters and in the mode of securing them, also in the seals or seal impressions or wafers used for such purpose.	409	19th Feb. 1861	William Pidding.
Improvements in securing or fastening envelopes, letters or other sealed packets, and in applying ornaments to the same.	677	18th March 1861	Charles Iles.
Mode of manufacturing and designing postage letter paper, postage envelopes for letters, and postage wrappers or covers for newspapers and other printed matter. (*Communicated by John Boyles Murray.*)	918	13th April 1861	James Wright.
Means or apparatus for the manufacture of paper bags or envelopes. (*Communicated by Augustus Wolle.*)	1674	1st July 1861	Lewis Henry Spence.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ENVELOPES, &c.—*continued.*			
Improvements in the manufacture of envelopes and other covers, and in part applicable to the gumming of sheets of paper.	2121	26th Aug. 1861	John Clark.
Envelopes	2421	27th Sept. 1861	George Joseph Ganier. Emile Eugène Collet.
Machinery for folding envelopes	2883	16th Nov. 1861	Jonathan Charles Goodall. John Beale.
Machinery for cementing the points of envelopes	3077	9th Dec. 1861	Rest Fenner.
Improvements in envelopes for containing photographic portraits and pictures. (*Communicated by Simeon Schloss.*)	3232	26th Dec. 1861	Joseph Schloss.
EXCAVATING AND TUNNELLING; DREDGING AND CLEANSING RIVERS.			
Constructing roadways under water	691	19th March 1861	James Chalmers.
Machinery for tunnelling and driving galleries through rock and other strata.	1386	3rd June 1861	Herbert Newton Penrice.
Construction of arches or other curved structures made of brick, stone or other materials. (*Tunnels.*)	1390	3rd June 1861	Joseph Daniel Davidge.
Apparatus for excavating sand and gravel under water.	1534	15th June 1861	Howard John Kennard.
Excavating-machinery (*Communicated by Messrs. Francis Burgess Scott, James Brayley and John Beman Pitts.*)	1665	29th June 1861	William Clark.
An improved wheelbarrow wagon (*For excavating.*) (*Communicated by Jean-Matthieu Rey, junior.*)	1963	7th Aug. 1861	Edward Thomas Hughes.
An improved steam digging machine (*For cutting soft rock.*)	2452	2nd Oct. 1861	Denis Rérolle.
Improvements in the construction of pneumatic subaqueous tubes for passenger or goods traffic, and in machinery for the manufacture thereof.	2811	9th Nov. 1861	David Cowan.
Apparatus for facilitating the cleansing of sewers and other water courses or ways	2865	13th Nov. 1861	Henry Robinson Fricker. John Manley.
Improvements in apparatus employed in sinking cylinders and open coffers for forming foundations under water.	3226	24th Dec. 1861	John Cochrane.
EXTRACTS, INFUSIONS, DECOCTIONS.			
Apparatus for evaporating in vacuo (*Preparing medicinal extracts.*)	781	30th March 1861	James John Field.
Apparatus used in making infusions of coffee and other substances.	999	22nd April 1861	Charles Carey.
Tea and coffee urns, coffee pots and other vessels for similar purposes.	1167	8th May 1861	William Wheatcroft Harrison.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EXTRACTS, &c.—*continued.*			
Obtaining products from sea weeds - - (*Spirit with properties of acetone.*)	1411	4th June 1861	Edward Charles Stanford.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.
Procuring a colouring matter from the refuse of iron stone called colour spert.	1722	6th July 1861	William Pask.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.
FABRICS; ELASTIC FABRICS.			
Manufacture of woven fabrics - - -	290	4th Feb. 1861	Auguste Edouard Chasteau De Balyon.
An improvement in or addition to brocaded silk fabrics.	318	8th Feb. 1861	Benjamin Peake.
Preparing warps for the manufacture of elastic fabrics. (*See* "WEAVING.")	414	19th Feb. 1861	Archibald Turner.
Woven fabrics - - - - - -	462	23rd Feb. 1861	Michael Meyers.
An improvement in the manufacture of flannel -	495	26th Feb. 1861	John Thomson Pagan. Thomas Benjamin Willans.
Woven fabrics - - - - - - (*See* "FIBRES.")	594	9th March 1861	Michael Meyers.
An improved fabric for covering billiard and bagatelle tables and other similar uses. (*Communicated by Jules Cordier.*)	700	20th March 1861	William Edward Gedge.
The manufacture of paper, linen, cotton or other fabrics prepared with a preparation of blue, to be used for the purpose of washing or other purposes. (*See* "DYEING.")	740	25th March 1861	William Edward Manby.
Improvements in preparing fabrics to render them suitable for packing goods, and in closing or sealing packages. (*See* "WATERPROOFING.")	815	2nd April 1861	James Brown.
An improvement in the manufacture of "card cloth" used for carding cotton, wool and other fibrous substances - - - - - -	860	8th April 1861	Joseph Walker. James Barnes.
Improvements relating to ornamental cotton fabrics having Turkey-red grounds. (*See* "PRINTING")	911	13th April 1861	George Graham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FABRICS, &c.—*continued.*			
Imitation of gold and silver embroidery - - (*See* "WIRE.") (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Manufacture of elastic fabrics - - -	1264	17th May 1861	Archibald Turner.
Manufacture of elastic web - - - -	1429	6th June 1861	Henry Turner. Thomas Yates.
A new application of certain products to ornamenting tissues, papers and other surfaces. (*See* "CEMENTED FABRICS.")	1866	25th July 1861	Marc Klotz.
A new kind of yarn being a combination of refuse and waste matters of fibrous materials and the said fibrous materials, and the cloth woven therefrom - - - - - - -	1968	8th Aug. 1861	John Eastwood. Thomas Charles Eastwood.
An improvement or improvements in backing or covering the backs or foundations of raised and cut piled fabrics - - - - (*See* "ENAMELLING.")	1988	9th Aug. 1861	Charles Lee. Thomas Kemp Mace.
Improvements in textile fabrics for embroidery trimmings and other ornamental purposes, and machinery employed in making the fabrics into trimmings.	2043	16th Aug. 1861	John Livesey.
An improvement or improvements in the manufacture of certain descriptions of brace webs known as india-rubber webs.	2602	18th Oct. 1861	Benjamin Taylor.
Manufacture of flannel - - - - (*Communicated by Jean Pierre Manichon, junior.*)	2627	21st Oct. 1861	William Edward Gedge.
Treatment of woven fabrics known as cords - (*See* "FINISHING.")	2712	29th Oct. 1861	John Samuel Jackson.
Manufacture of woven fabrics - - - (*See* "WEAVING.")	2717	30th Oct. 1861	Richard Rowntree Priestley.
Manufacture of elastic fabrics - - -	2779	5th Nov. 1861	Edward Bowra.
Improvements in the manufacture of pointed trimming, and in the machinery for manufacturing pointed trimming.	2833	11th Nov. 1861	Chauncy Orrin Crosby.
Manufacture of saddle cloths known as numnahs -	2889	16th Nov. 1861	William Naish.
Textile and felted fabrics - - - -	2943	23rd Nov. 1861	Charles Henry Julius William Maximilian Liebmann.
Manufacture and ornamentation of textile fabrics -	3036	4th Dec. 1861	James Hemingway.
Manufacture of quilts and coverlets - - -	3067	7th Dec. 1861	Thomas Lawes.
A new or improved method of ornamenting certain fabrics.	3131	13th Dec. 1861	Thomas Bow Gibson.
Improvements in looms for weaving and in the manufacture of cloth therefrom. (*Canvas or sail cloth.*)	3155	16th Dec. 1861	David Chalmers.
Ornamentation of textile fabrics - - -	3174	18th Dec. 1861	Joseph Thiébaut.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FABRICS, &c.—*continued.*			
Improvements in the manufacture of certain descriptions of woven, looped and bobbin net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
Improvements in the manufacture of umbrellas and parasols.	3262	31st Dec. 1861	William Tongue.
FEATHERS; FLOWERS; ARTIFICIAL FLOWERS.			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For artificial flowers.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of artificial flowers and similar articles (*Communicated by Edward Delcambre.*)	1135	6th May 1861	Edward Thomas Hughes.
Improvements in obtaining the separation of feathers, hair or other covering from the skins of animals, and in securing such in position when separated - - - - -	1634	26th June 1861	Joseph Randall Tussaud. Francis Curtius Tussaud.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise. (*Preserving flowers.*)	3069	7th Dec. 1861	Richard Jolley.
Treatment and application to various useful purposes of light spirituous liquids. (*For cleansing feathers.*)	3175	18th Dec. 1861	Charles Edward Symonds.
Improvements in apparatus for drying wool and other fibres and substances. (*Feathers, &c.*)	3223	24th Dec. 1861	Edward Barnard Sampson.
FENCES AND RAILINGS.			
Apparatus for cutting and shaping metals - - (*Iron rails.*) (*Communicated by Mr. Aaron Bonehill.*)	715	21st March 1861	William Clark.
Construction of wire and other similar fences - -	730	22nd March 1861	John Potter.
Adaptation of plates of iron and other metal in the construction of dwelling-houses, fences, parts of carriages or vehicles, and in other structures or constructions.	1169	8th May 1861	Philip Henry Williams.
Certain improvements in the manufacture of metallic posts for supporting telegraph wires, and which said improvements are also applicable for other purposes. (*For fences.*)	1539	15th June 1861	Ferdinand Potts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FENCES, &c.—*continued.*			
Certain improvements in the construction of straining pillars or posts for wire or other strained fencing, and in the apparatus to be adapted thereto for straining or tightening the wires or strands.	1942	5th Aug. 1861	John Potter.
An improved mode of jointing or connecting telegraph wires, which is also applicable to jointing or connecting signal wires, fencing wires and other wires or rods.	3109	11th Dec. 1861	John Potter.
FIBRES (*Obtaining from Plants, Recovering from Manufactured Goods, Separating, Cleaning, Packing.*)			
Separating foreign matters from the droppings from carding-machines and for returning the residue thereunto - - - - -	54	9th Jan. 1861	James Fitton. F. E. Fullerton.
Machinery or apparatus for preparing cotton or other fibrous materials to be spun - - - (*Cleansing from dirt, &c.*)	124	16th Jan. 1861	Edwin Whittaker. Jeremiah Clare.
Improved machinery or apparatus for picking and cleaning "oakum" and for spinning or twisting the same for the purpose of calking ships or vessels.	172	22nd Jan. 1861	Edward Ellis.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used - - - - -	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
Machinery for preparing hemp and similar fibrous materials. (*Communicated by Joseph Compton Todd and Philip Rafferty.*)	342	11th Feb. 1861	William Edward Newton.
Woven fabrics - - - - - (*Combining fibres.*)	462	23rd Feb. 1861	Michael Meyers.
Machinery for treating flax, hemp, New Zealand flax, Spanish or China grass and other vegetable fibres.	511	28th Feb. 1861	Edward Brasier.
Improvements in the actual mode of scouring wools before and after the combing of the same	588	8th March 1861	Edward Comte. Edward Prevost.
Woven fabrics - - - - - (*Mixing jute with silk, &c.*)	594	9th March 1861	Michael Meyers.
Machinery for cleansing or dressing bass, flax and other vegetable fibres, applicable also to the thrashing of corn and other grain.	654	15th March 1861	Augustus Smith.
Machinery or apparatus for treating hemp, flax, jute and other fibrous substances requiring a similar treatment.	672	16th March 1861	James Robb.
Machinery for pressing or baling cotton and other substances - - - - -	738	23rd March 1861	Thomas Cardwell. David Campbell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Machinery for cleansing cotton - - -	768	27th March 1861	John Macmillan Dunlop.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun - - (*Opening and cleaning.*)	819	3rd April 1861	William Crighton. Frederick William Crighton.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*Applying the fibres in imitation of hair and bristles.*)	853	6th April 1861	Thomas Goulston Ghislin.
Machinery for cleansing cotton - - -	899	11th April 1861	John Macmillan Dunlop.
Machinery or apparatus for cleaning cotton and other fibrous substances. (*Communicated by Isaac Hayden.*)	956	18th April 1861	Alfred Vincent Newton.
Improvements in treating flax, hemp, rhea, China-grass, New Zealand flax, plantain and other vegetable fibres, and in the means or apparatus employed therein. (*Communicated by George Rutter.*)	1016	24th April 1861	Ebenezer Woodcock.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Obtaining fibrous materials and paper pulp from various trees, shrubs and plants.	1216	13th May 1861	Antoine Constant Vautier.
Cleaning flax, separating the fibre from the straw, called a flax scutching machine.	1359	31st May 1861	Hugh Boyd Mackay.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1439	6th June 1861	John Platt. William Richardson.
An improved mode of converting vegetable fibrous substances into pulp. (*See* "PAPER MAKING.")	1507	12th June 1861	John Watt.
Improved beating apparatus for picking and cleaning substances used in making or manufacturing woven or textile fabrics, more especially cashmeres, alpacas and other fine materials, preparing the same for scouring. (*Communicated by Michel Girrés.*)	1515	13th June 1861	William Edward Gedge.
Certain improvements in machinery for preparing cotton and other fibrous materials.	1518	13th June 1861	John Knowles.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	3rd July 1861	John Petrie, junior.
Extracting the fibres from genista scoparia (broom) and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Fermier de la Provotais.
An improved process and improved machinery for obtaining fibres from the stalks or leaves of fibre yielding plants. (*Communicated by James Mallory and Gelston Sanford.*)	1802	17th July 1861	Alfred Vincent Newton.
An improved method of preparing flax from old materials for spinning and other purposes.	1844	23rd July 1861	Thomas Gray.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1861	24th July 1861	John Platt. William Richardson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FENCES, &c.—*continued.*			
Certain improvements in the construction of straining pillars or posts for wire or other strained fencing, and in the apparatus to be adapted thereto for straining or tightening the wires or strands.	1942	5th Aug. 1861	John Potter.
An improved mode of jointing or connecting telegraph wires, which is also applicable to jointing or connecting signal wires, fencing wires and other wires or rods.	3109	11th Dec. 1861	John Potter.
FIBRES (*Obtaining from Plants, Recovering from Manufactured Goods, Separating, Cleaning, Packing.*)			
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Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used - - - - -	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
Machinery for preparing hemp and similar fibrous materials. (*Communicated by Joseph Compton Todd and Philip Rafferty.*)	342	11th Feb. 1861	William Edward Newton.
Woven fabrics - - - - - - (*Combining fibres.*)	462	23rd Feb. 1861	Michael Meyers.
Machinery for treating flax, hemp, New Zealand flax, Spanish or China grass and other vegetable fibres.	511	28th Feb. 1861	Edward Brasier.
Improvements in the actual mode of scouring wools before and after the combing of the same	588	8th March 1861	Edward Comte. Edward Prevost.
Woven fabrics - - - - - - (*Mixing jute with silk, &c.*)	594	9th March 1861	Michael Meyers.
Machinery for cleansing or dressing bass, flax and other vegetable fibres, applicable also to the thrashing of corn and other grain.	654	15th March 1861	Augustus Smith.
Machinery or apparatus for treating hemp, flax, jute and other fibrous substances requiring a similar treatment.	672	16th March 1861	James Robb.
Machinery for pressing or baling cotton and other substances - - - - - -	738	23rd March 1861	Thomas Cardwell. David Campbell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Machinery for cleansing cotton - - -	768	27th March 1861	John Macmillan Dunlop.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun - - (*Opening and cleaning.*)	819	3rd April 1861	William Crighton. Frederick William Crighton.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*Applying the fibres in imitation of hair and bristles.*)	853	6th April 1861	Thomas Goulston Ghislin.
Machinery for cleansing cotton - - -	899	11th April 1861	John Macmillan Dunlop.
Machinery or apparatus for cleaning cotton and other fibrous substances. (*Communicated by Isaac Hayden.*)	956	18th April 1861	Alfred Vincent Newton.
Improvements in treating flax, hemp, rhea, China-grass, New Zealand flax, plantain and other vegetable fibres, and in the means or apparatus employed therein. (*Communicated by George Rutter.*)	1016	24th April 1861	Ebenezer Woodcock.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Obtaining fibrous materials and paper pulp from various trees, shrubs and plants.	1216	13th May 1861	Antoine Constant Vautier.
Cleaning flax, separating the fibre from the straw, called a flax scutching machine.	1359	31st May 1861	Hugh Boyd Mackay.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1439	6th June 1861	John Platt. William Richardson.
An improved mode of converting vegetable fibrous substances into pulp. (*See* "PAPER MAKING.")	1507	12th June 1861	John Watt.
Improved beating apparatus for picking and cleaning substances used in making or manufacturing woven or textile fabrics, more especially cashmeres, alpacas and other fine materials, preparing the same for scouring. (*Communicated by Michel Girrés.*)	1515	13th June 1861	William Edward Gedge.
Certain improvements in machinery for preparing cotton and other fibrous materials.	1518	13th June 1861	John Knowles.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	3rd July 1861	John Petrie, junior.
Extracting the fibres from genista scoparia (broom) and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Fermier de la Provotais.
An improved process and improved machinery for obtaining fibres from the stalks or leaves of fibre yielding plants. (*Communicated by James Mallory and Gelston Sanford.*)	1802	17th July 1861	Alfred Vincent Newton.
An improved method of preparing flax from old materials for spinning and other purposes.	1844	23rd July 1861	Thomas Gray.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1861	24th July 1861	John Platt. William Richardson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres.	1894	29th July 1861	Edmond Hamborough Joynson.
Treating or preparing textile materials and fabrics -	1903	31st July 1861	Harold Potter.
Treating flax, hemp and other analogous substances which yield fibres, for the purpose of manufacturing from them fibres adapted to be spun into yarn and thread.	2094	21st Aug. 1861	James Kane.
An improved method of treating the hop plant to obtain a material resembling wool. (*Communicated by Barthélemy Picard.*)	2110	23rd Aug. 1861	Richard Archibald Brooman.
Treating animal fibre recovered from rags composed of mixed animal and vegetable fibre -	2165	30th Aug. 1861	Charles Worms. James Warburton.
Improvements in cleansing cotton seeds and in machinery used for such process.	2179	31st Aug. 1861	John Macmillan Dunlop.
Apparatus for dividing and softening vegetable fibres. (*Communicated by Felix Sorin.*)	2225	6th Sept. 1861	William Spence.
Machinery or apparatus for softening or treating jute, hemp, flax or other similar fibrous substances.	2245	9th Sept. 1861	George Malcolm.
An improved combination of chemical and mechanical processes for the conversion of fibrous vegetable matters into paper pulp. (*Communicated by Louis Achille Carteron.*)	2268	12th Sept. 1861	Marc Antoine François Mennons.
Machinery or apparatus for opening and cleaning cotton and other fibrous materials - -	2331	18th Sept. 1861	Edmund Suckow. Edward Habel.
Improvements in the mode of obtaining certain chemical substances and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - -	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
Washing and scouring wool by the introduction of air into the water, using an aëriform washing apparatus.	2371	23rd Sept. 1861	Hippolyte Plantrou, junior.
Cylinders or drums and beaters for machines for scutching and preparing flax and other fibres.	2490	5th Oct. 1861	William Rowan.
The application of a new material in the manufacture of paper, cardboard and yarns - -	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Obtaining and treating fibrous substances - -	2628	21st Oct. 1861	Ferrar Fenton.
Increasing the production of wool - - - (*Communicated by Casimir Maistre.*)	2793	7th Nov. 1861	William Edward Gedge.
Machinery or apparatus for scutching and refining flax, hemp, jute and other fibrous substances.	2809	8th Nov. 1861	John Byrne.
Improvements in processes for treating, preparing and combing certain fibrous materials, and in the machinery or apparatus employed for these purposes.	2826	11th Nov. 1861	William Tongue.
Improvements in the manufacture of printed yarns and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads.	2842	12th Nov. 1861	William Tongue.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses.	2880	15th Nov. 1861	Werner Staufen.
Hydraulic cotton presses worked by steam - -	2886	16th Nov. 1861	David Stewart.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Improved machinery for cutting up linen, cotton, woollen and other rags, fibrous waste or vegetable substances for various purposes in the industrial arts.	2973	26th Nov. 1861	George Bottomley.
Machinery and apparatus for burring, carding and combing wool and other fibrous substances.	2980	27th Nov. 1861	Francis Alton Calvert.
Improvements in the preparation and treatment of vegetable fibres the better to adapt them for combining, working up and dyeing with different fibres, such as silk, wool, cotton and others, and in apparatus used in such treatment or preparation.	3046	4th Dec. 1861	Charles Samuel Henry Hartog.
Facilitating the drying of wet or damaged cotton or wool or other similar fibrous material.	3089	10th Dec. 1861	Goldsmith Tear.
Manufacture of textile materials - - - (*Communicated by Alois Chevalier Auer de Welsbach.*)	3153	16th Dec. 1861	George Davies.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	3165	17th Dec. 1861	John Platt. William Richardson.
Cotton gins - - - - - - (*Communicated by Hiram Wilson Brown.*)	3181	19th Dec. 1861	Theodore Bourne.
Improvements in apparatus for drying wool and other fibres and substances.	3223	24th Dec. 1861	Edward Barnard Sampson.
Improvements in the manufacture of certain descriptions of woven, looped and bobbin net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
Improvements in the manufacture of umbrellas and parasols.	3262	31st Dec. 1861	William Tongue.
See also "SPINNING (OPENING)."			
FILES AND RASPS.			
Machinery for cutting files - - - (*Communicated by William Van Anden.*)	833	4th April 1861	William Edward Newton.
New or improved machinery for grinding and polishing swords, matchetts and knives, which said machinery may also be employed for grinding gun barrels and files and for other like purposes.	921	15th April 1861	Edgar Brooks.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass. (*And to making files.*)	1753	11th July 1861	William Wilkinson.
Improvements in apparatus for the manufacture of cast steel mill chisels and other taper tools and files.	3186	20th Dec. 1861	William Makin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FILES OR CLIPS FOR PAPERS, &c.			
Certain improvements in the means of or apparatus for holding or filing receipts, invoices and other papers or tickets, and which said means are also applicable for holding other articles, such as fancy or other wares required to be held -	370	13th Feb. 1861	Joseph Starling Blake. George Calley Lingham. Joseph Nicklin.
FILTERING, PURIFYING AND CLARIFYING LIQUIDS; FILTERS; DISTILLING WATER; SOFTENING WATER.			
Filters - - - - - - - (*Communicated by Mr. Jules Pacôme Alfred Havard.*)	45	8th Jan. 1861	William Clark.
Apparatus and materials for filtering water and other liquids. (*Communicated by Mr. G. Dardel.*)	132	17th Jan. 1861	Marc Antoine François Mennons.
Apparatus for filtering - - - - -	170	22nd Jan. 1861	William Cooke.
Purifying water for the supply of steam-boilers and other uses.	280	2nd Feb. 1861	John Cameron.
Apparatus for obtaining fresh water from salt water - - - - - - -	617	13th March 1861	Douglas Hebson. William Grandage Ramsden.
Brewing - - - - - - -	775	28th March 1861	Louis Jean Vandecasteele.
Steam boilers and the prevention of incrustation therein - - - - - - - (*Filtering feed water.*)	765	30th March 1861	Thomas Sykes. Benjamin Clifford Sykes, M.D.
Certain improved filtering agents, one of which is applicable in the manufacture of crucibles -	1062	27th April 1861	Thomas Vaughan Morgan. Julius Gustav Dahlke.
Improvements in the decoloration and disinfection of liquids and in the apparatus to be employed therein, which improvements are also applicable to the manufacture or production of drying oils. (*Communicated by Louis Bouton.*)	1177	9th May 1861	John Henry Johnson.
The treatment of ammoniacal waters resulting from putrified urines and from products extracted by the distillation of coal. (*Communicated by Messrs. Louis Joseph Frédéric Margueritte and Alfred Lalouël de Sourdeval.*)	1217	13th May 1861	William Clark.
Certain improved methods of and apparatus for ascertaining and removing impurities contained in water.	1316	24th May 1861	Frederick Hahn Danchell.
Improvements in treating cream or milk and in obtaining butter and other products therefrom.	1348	30th May 1861	Frances Ann Whitehead.
Obtaining fresh water at sea by means of distilling apparatus combined with the cooking stoves or otherwise.	1473	10th June 1861	Andrew Brown.
Preparation, application and manufacture of peat - (*Coke for filtering.*)	2058	19th Aug. 1861	William Henry Smith.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Fryatt.*)	2129	26th Aug. 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FILTERING, &c.—*continued.*			
Improvements in treating yeast and in the manufacture of ammoniacal salts and a substitute for animal charcoal. (*Charcoal for filtering.*)	2196	3rd Sept. 1861	Patrick Robertson.
Improvements in treating stone, bricks and other surfaces and in the manufacture of filters -	2312	16th Sept. 1861	Frederic Maitland Ransome. Ernest Leslie Ransome.
Apparatus for filtering or purifying water or other liquids. (*Communicated by Mr. Jean Antoine Victor Burq.*)	2323	18th Sept. 1861	George White.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately. (*Distilling fresh water from salt water.*)	2499	7th Oct. 1861	Alexander Chaplin.
Portable and other filters - - - (*Communicated by Jules Pacôme, Alfred Havard and Jean Baptiste Bourgoise.*)	2824	9th Nov. 1861	William Clark.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise. (*Preserving waters.*)	3069	7th Dec. 1861	Richard Jolley.
An improved method of and apparatus for separating solid from liquid substances.	3217	24th Dec. 1861	John Rosindell.
Improvements in revivifying animal black or charcoal, in collecting ammoniacal gases generated in the revivification, in the clarification of saccharine liquors, and in apparatus employed in the revivification of the black and in the filtering of saccharine liquors. (*Communicated by Absolon Hippolyte Leplay and Jules François Joseph Cuisinier.*)	3275	31st Dec. 1861	Richard Archibald Brooman.
FINISHING, DRESSING, SINGEING, SHEARING, FOLDING AND PRESSING WOVEN FABRICS, YARNS, &c.			
Presses and modes of pressing applicable to cotton, hemp, wool, coir, hides, hay, fibres, peat, linen, thread, piece goods, extracting oil, and other useful purposes.	18	3rd Jan. 1861	Samuel Perkes.
Machinery for finishing patent tracing cloth and other woven fabrics.	122	15th Jan. 1861	Henry Sagar.
An improved machine called a "cross raising gig" used in the dressing of woollen cloth.	242	30th Jan. 1861	John Mellor, junior.
Machinery or apparatus for finishing textile fabrics	258	31st Jan. 1861	James Robertson.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Machinery for raising pile on woollen, cotton and other fabrics.	291	4th Feb. 1861	Robert Howarth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FINISHING, &c.—*continued.*			
Improvements in coating, coloring and glazing or finishing laces, bands, straps, belts and other similar articles, and in the machinery or apparatus employed therein.	298	5th Feb. 1861	William Paton.
Machinery or apparatus for folding and measuring woven or textile fabrics, paper and other materials, and for introducing cards into the folds ready for the press.	304	6th Feb. 1861	Adolphe Drevelle.
Improvements in the process of manufacturing a glutinous or viscous substance to be used in dressing textile fabrics and for other such like processes, or in brewing and distilling, and also in the apparatus to be used for the same and similar purposes.	358	12th Feb. 1861	William Maltby.
An improved construction of reel for velvet or other ribbons.	423	20th Feb. 1861	William Halse.
Manufacture and renovation of woven fabrics -	518	28th Feb. 1861	Charles Beslay.
Treating woollen and union cloths for surface finish.	560	5th March 1861	Robert Brearley, junior.
Improvements in warping, dressing and finishing threads and in apparatus for the same. (*Communicated by Mr. Eugène Lebée.*)	584	7th March 1861	William Clark.
Treating or preparing textile materials and fabrics -	615	13th March 1861	Alfred Peek.
Improvements in the manufacture of gas and in the apparatus employed therein - - (*Gas for singeing textile fabrics.*)	652	15th March 1861	Frederick Trachsel. Thomas Clayton.
Presses for pressing or finishing textile fabrics -	665	16th March 1861	Adolphe Drevelle.
Machinery or apparatus for treating hemp, flax, jute and other fibrous substances requiring a similar treatment. (*Softening yarn.*)	672	16th March 1861	James Robb.
Improvements in treating yarns and threads of silk and other fibrous materials for purposes of restoring colour thereto and improving their quality and appearance, also in apparatus employed in operating on yarns and threads. (*Communicated by Charles Torne.*)	704	20th March 1861	Michael Henry.
Sizing or preparing paper and textile fabrics in order to render them waterproof and to increase the strength thereof. (*Communicated by Leon Bertin and Pierre Cateron.*)	895	11th April 1861	Richard Archibald Brooman.
Means or apparatus for stretching fabrics during the processes of finishing fabrics - -	1046	26th April 1861	John Lunn. George Hiley. John Lisle.
Machinery for the manufacture of paper - - (*Sizing.*)	1057	26th April 1861	Edmund Hamborough Joynson.
Certain new chemical combinations and for the application thereof to fixing aniline and pigment colours in printing and dyeing, to tanning, waterproofing and other industrial purposes. (*Communicated by Doctor Francis Leovold Sonnenschein.*)	1079	30th April 1861	Jacques Meyer.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses. (*Rollers for glazing fabrics.*)	1233	14th May 1861	John Chedgey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FINISHING, &c.—*continued.*			
Spinning and treating yarns - - - (*Passing through water.*)	1241	15th May 1861	Samuel Cunliffe Lister. James Warburton.
Means or apparatus for finishing and drying thread, twine, cords and ropes.	1356	31st May 1861	William Bywater.
An improvement in preparing, "crabbing" or finishing piece goods and improvements in machinery employed therein.	1403	4th June 1861	Joseph Hulme Holdsworth.
Certain improvements in machinery or apparatus for brushing, raising and dressing the surfaces of cut pile and looped fabrics - - -	1458	8th June 1861	John Mayo Worrall. Thomas Lawrence.
Apparatus used in dressing lace or other fabrics -	1485	10th June 1861	John Budibent Carter.
Gas singeing apparatus - - - - -	1528	14th June 1861	John Summerscales. Mark Mason.
Glazing or calendering by steam, horse or water power textile fabrics which have been worn, made up for use, or sewn together.	1575	19th June 1861	James Fisken.
Apparatus for washing, cleansing, scouring, getting up, dyeing, boiling and steaming.	1755	11th July 1861	Henry Ashwell.
Improved machinery for clearing and smoothing spun thread or yarns and other similar fibrous materials. (*Communicated by Eugéne Ab-der-Halden and Charles Seiler.*)	1777	15th July 1861	Benjamin Browne.
Improvements in heating cylinder irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated irons are ordinarily used, and in apparatus connected therewith. - - - -	1801	17th July 1861	Sir John Hare, Knight. Barnabas Russ.
Improved apparatus to be used for brushing and dressing cloth - - - - -	1812	18th July 1861	George Coles. James Archibald Jaques. John Americus Fanshawe.
Treating or preparing textile materials and fabrics	1903	31st July 1861	Harold Potter.
An improvement or improvements in backing or covering the backs or foundations of raised and cut piled fabrics - - - - (*See* "ENAMELLING.")	1988	9th Aug. 1861	Charles Lee. Thomas Kemp Mace.
Pressing-boards for pressing cloth and other fabrics. (*Communicated by Edouard Fleury.*)	2019	14th Aug. 1861	William Edward Gedge.
Machinery or apparatus for shearing military hat tufts and other similar articles.	2089	21st Aug. 1861	Joseph Marie Murat.
Improvements in the manufacture and preparation of starch and in the apparatus employed therein. (*For dressing goods.*)	2162	30th Aug. 1861	James Simmons Matthews.
An improvement in the ornamentation of woven and other fabrics for garments and parts of garments. (*See* "CEMENTED FABRICS.")	2170	31st Aug. 1861	Henry Keach.
Dressing or stiffening lace and other fabrics -	2573	16th Oct. 1861	Francis Bryan Baker.
Improvements in beating, stretching and drying fabrics and in the apparatus employed therein, part of which apparatus is also applicable for thrashing linseed. (*Partly communicated by William Aldon.*)	2689	26th Oct. 1861	James Lee Norton.
Treatment of woven fabrics known as cords -	2712	29th Oct. 1861	John Samuel Jackson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FINISHING, &c.—*continued.*			
Improvements in the manufacture of pointed trimming, and in the machinery for manufacturing pointed trimming. (*Folding tape and stitching.*)	2833	11th Nov. 1861	Chauncy Orrin Crosby.
Machinery or apparatus for stretching, glossing and finishing silk. (*Communicated by James Leigh.*)	2849	13th Nov. 1861	William Henry Hammersley.
Machinery or apparatus for raising and finishing fabrics. (*Communicated by Mr. Filman Esser.*)	2894	18th Nov. 1861	Frederick Caesar Paetow.
Improvements in the manufacture of paste which is also applicable for sizing purposes.	2930	22nd Nov. 1861	William Hirst.
A new or improved method of treating teazles or thistles to be used in the teazling of cloths and stuffs and otherwise. (*Communicated by Adolphe André Gohin.*)	3106	11th Dec. 1861	Richard Archibald Brooman.
Treatment and application to various useful purposes of light spirituous liquids. (*As detergents in cleansing silks, woollens, &c.*)	3175	18th Dec. 1861	Charles Edward Symonds.
An improved machine for winding lace or other similar fabrics or tissues on cards or other materials.	3193	20th Dec. 1861	George Walkland.
A new or improved method of preparing silk fabrics to be employed in the manufacture of hats, caps and bonnets. (*Communicated by Louis Bayard.*)	3198	20th Dec. 1861	Richard Archibald Brooman.
An improved composition for cleaning and revivifying woollen cloths and other fabrics and the colours thereof. (*Communicated by Alfred Thomas.*)	3199	20th Dec. 1861	Eugene Etienne Pereau.
Improvements in scrays or tables applicable to gig mills, brushing mills and other like machinery.	3212	21st Dec. 1861	William Kempe.
See also "DRYING."			
FIRE-ARMS, GUNS, ORDNANCE, GUN-CARRIAGES, TARGETS, RIFLE-RANGES.			
An improved trigger for gun locks - - -	61	10th Jan. 1861	Michael Frederick Halliday.
Improvements in cannon and mortars and in projectiles for the same.	98	12th Jan. 1861	Giovanni Franci.
Improved rifle ranges and butts and appliances connected therewith.	108	15th Jan. 1861	Samuel Hemming.
Certain improvements in fire-arms and ordnance -	109	15th Jan. 1861	John Sidebottom.
Breech-loading fire-arms and ordnance - -	120	15th Jan. 1861	James Picken.
Rifles and their projectiles - - - - -	161	21st Jan. 1861	Lieutenant John Scott.
Ordnance and projectiles - - - - -	216	26th Jan. 1861	Henry Bessemer.
A new or improved instrument or apparatus for converting breech-loading small arms into muzzle-loading small arms, and an improvement or improvements in cartridges for breech-loading small arms.	256	31st Jan. 1861	Charles Reeves.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
An improved tumbler lever and body applicable to double and single breech-loading guns.	296	5th Feb. 1861	Richard Jeffery.
An improvement in rests for rifles and other small arms.	308	6th Feb. 1861	Charles Wentworth Forbes.
Construction of ordnance and of projectiles to be used in ordnance.	321	8th Feb. 1861	William Montgomery Storm.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes or bodies.	334	9th Feb. 1861	Josiah George Jennings.
Construction of certain kinds of breech-loading fire-arms. (*Communicated by Charles Joseph Ferdinand Comte de Jouffroy d'Abbans.*)	340	11th Feb. 1861	Marc Antoine François Mennons.
Certain improvements in breech-loading fire-arms -	368	13th Feb. 1861	Thomas Tipping Lawden. Thomas Jones.
Spectacles and hand frames - - - (*For rifle shooting.*)	389	16th Feb. 1861	John Braham.
An improved stadium or telemeter - - - (*For rifle practice.*)	402	19th Feb. 1861	Alfred Carter.
Fire-arms - - - - - - -	407	19th Feb. 1861	Matthew Paris.
Improvements in the construction of guns and in loading and firing the same. (*Communicated by William McCord, Charles Foster Cox, and Robert Woodward.*)	412	19th Feb. 1861	William Edward Newton.
Fire-arms - - - - - - -	441	22nd Feb. 1861	Arthur Lowry Cole.
Rocket guns and rocket-harpoons and appendages to be used therewith. (*Communicated by Thomas Welcome Roys.*)	450	22nd Feb. 1861	William Walker.
An improved method of igniting or firing gunpowder, gun cotton and other like explosive compounds in large and small fire-arms and ordnance, applicable also to the firing of explosive compounds generally.	562	5th March 1861	Charles Hanson.
An improvement in the locks of fire-arms - -	568	6th March 1861	George Benjamin Vaughan Arbuckle. Thomas Scott.
Rifled or smooth barrelled arms discharging projectiles forcibly propelled or not and loaded by the breech.	589	8th March 1861	Paul Doury.
Certain improvements in the manufacture of gun barrels.	611	12th March 1861	William Perry.
India-rubber springs for railway and other uses - (*For gun carriages.*)	613	13th March 1861	George Spencer.
Breech-loading fire-arms and their projectiles -	646	15th March 1861	John Marson.
Structure and construction of ordnance and other fire-arms and of projectiles to be used with them.	651	15th March 1861	Charles John Burnett.
Improvements in the construction of mortars, and in the means of attaching the same to the carriages used therewith.	662	16th March 1861	Alfred Krupp.
Breech-loading fire-arms - - - -	671	16th March 1861	Ebenezer Erskine Scott.
Improved breech-loading cannon - - -	743	25th March 1861	Sir William George Armstrong.
Certain improvements in fire-arms and in the method of rifling the barrels of the same.	773	28th March 1861	Perceval Moses Parsons.

Subject-matter of Patent.	Number of Paten.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Breech-loading fire-arms - - - - (*Communicated by Christopher Miner Spencer.*)	843	5th April 1861	William Edward Newton.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For pistol stocks and mountings for guns.*)	853	6th April 1861	Thomas Goulston Ghislin.
Breech-loading fire-arms and ordnance - -	874	9th April 1861	William Wood.
Breech-loading fire-arms - - - -	907	13th April 1861	Thomas Bailey.
An improvement in or addition to certain kinds of breech-loading fire-arms and ordnance.	908	13th April 1861	Joseph Rock Cooper.
An improved instrument to be fixed on the bayonet or muzzle of a rifle for estimating distances.	913	13th April 1861	Edgar Corke.
New or improved machinery for grinding and polishing swords, matchetts and knives, which said machinery may also be employed for grinding gun barrels and files and for other like purposes.	921	15th April 1861	Edgar Brooks.
Ordnance and projectiles - - - -	923	15th April 1861	Alphonse Sax.
Certain kinds of breech-loading fire-arms - -	950	18th April 1861	Henry Jones.
Manufacture of breech-loading fire-arms, and a new method of attaching the barrel or barrels of a gun to the stock.	990	22nd April 1861	James Leetch.
Improvements in fire-arms and in apparatus to be used therewith.	1000	22nd April 1861	Alexander Henry.
Improvements in the construction of breech-loading ordnance and in the carriages and projectiles used for the same.	1011	23rd April 1861	Robert Warry.
Construction of electric targets for rifle and gun practice.	1023	24th April 1861	Frederic Newton Gisborne.
Apparatus for lubricating the barrels of fire-arms and ordnance.	1050	26th April 1861	John Harcourt Brown.
Projectiles and ordnance - - - -	1069	27th April 1861	Henry Bessemer.
An improvement or improvements in the manufacture of the guards and trigger plates of rifles and other small arms.	1082	1st May 1861	Isaac Hollis.
A new method and apparatus for ascertaining the distance of distant objects. (*For gunnery.*)	1088	1st May 1861	William Browning.
Construction of targets - - - -	1091	1st May 1861	Alexander McNeile.
Bands for rifles and other fire-arms - - -	1190	10th May 1861	John Fraser Lodington Baddeley.
Fire-arms and ordnance - - - -	1191	10th May 1861	Philip Vallance.
Improvements in projectiles and in fire-arms for discharging the same.	1229	14th May 1861	Robert William Woolcombe.
Construction of electric targets for rifle and gun practice.	1246	16th May 1861	Frederic Newton Gisborne.
Ordnance - - - - - -	1285	20th May 1861	Michael Scott.
Cannon and projectiles to be used therewith - - (*Partly communicated by Joseph Zöchling.*)	1303	22nd May 1861	Giovanni Battista Naglost.
Manufacture of wrought iron cylinders for the construction of ordnance.	1337	29th May 1861	George Wightwick Rendel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Revolving fire-arms - - - - - (*Communicated by Michel Javelle.*)	1362	31st May 1861	Frederick Tolhausen.
Ordnance and fire-arms - - - - (*Partly communicated by Charles Alger.*)	1363	31st May 1861	Edward Charles Healey.
Improvements in constructing the barrels of fire-arms and ordnance and in fire-arms.	1408	4th June 1861	John Andrew Van Braam.
Improvements in breech-loading arms and in projectiles for breech-loading arms.	1415	5th June 1861	François Jules Manceaux.
Mechanism or apparatus for locks, and bolts and other fasteners, gun locks and gun breeches, catches for weaving-shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Fire-arms - - - - - (*Communicated by Pierre Joseph Jarre.*)	1486	10th June 1861	Michael Henry.
Breech-loading fire-arms - - - -	1487	11th June 1861	François Eugène Schneider.
An improved method of constructing safety rifle and other gun ranges.	1494	11th June 1861	Charles Cheyne.
Gun stocks - - - - - (*Communicated by Charles Richard Alsop, Joseph Wright Alsop and Henry Chauncey, junior*)	1498	11th June 1861	William Edward Newton.
Breech-loading fire-arms and fowling pieces -	1538	15th June 1861	Stephen Grant.
Means and apparatus for facilitating the working and discharge of ordnance placed below the water level.	1541	15th June 1861	Thomas Page.
Improvements in batteries and in breech-loading ordnance and projectiles for the same. (*Communicated by Mr. Mathieu Castay and Baron Henri de Rivière.*)	1550	17th June 1861	William Clark.
Mounting and fitting ships' guns and other ordnance.	1564	18th June 1861	James Alfred Limbert.
A method of utilizing old or smooth bore cannon by strengthening and rifling them so as to render them efficient to fire elongated or cylindro-conoidal projectiles.	1729	8th July 1861	Jacob Snider, junior.
Improvements in revolving fire-arms and in cartridges for the same.	1758	12th July 1861	John Adams.
Improvements in breech-loading ordnance applicable also to small arms. (*Communicated by Lewis Wells Broadwell.*)	1824	19th July 1861	Richard Archibald Brooman.
Fire-arms and ordnance - - - -	1853	24th July 1861	John Sidebottom.
Sights for fire-arms - - - -	1871	25th July 1861	Charles Robertson.
Certain improvements in the construction, armament and equipment of batteries, floating or otherwise, for war purposes. (*Gun carriage.*)	1873	26th July 1861	John Frederick Bourne.
Construction of breech-loading fire-arms - -	1887	29th July 1861	George Sturrock.
Breech-loading fire-arms - - -	1904	31st July 1861	Harris John Holland. Walter Payton.
A new or improved transportable machine or apparatus for rifling cannon.	1933	3rd Aug. 1861	Josiah Vavasseur.
Certain descriptions of breech-loading fire-arms - (*Communicated by Alem Rousseau.*)	1964	7th Aug. 1861	Marc Antoine François Mennons.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
A new or improved elevating rifle sight	2033	15th Aug. 1861	Philip Webley. Thomas William Webley.
Breech-loading arms	2042	15th Aug. 1861	Theophilus Murcott. Charles Hanson.
Rifles and projectiles	2093	21st Aug. 1861	Westley Richards.
Improvements in sights for small arms and ordnance, and in fitting apparatus used with small arms	2104	23rd Aug. 1861	Joseph Whitworth. William Wilson Hulse.
Guns (*Communicated by William McCord.*)	2284	13th Sept. 1861	William Edward Newton.
Sights for rifles and other fire-arms	2307	16th Sept. 1861	George Fry.
Construction of portable fire-arms	2375	23rd Sept. 1861	Alfred Augustus Hely.
Protecting the locks and sights of fire-arms	2439	30th Sept. 1861	Henry Hickman.
Markers, butts or mantelets	2045	1st Oct. 1861	Robert Nightingale.
Fire-arms	2453	2nd Oct. 1861	Andrew Wiley.
Improvements in the mode of discharging cannon and in apparatus for facilitating the proper aiming with fire-arms	2465	3rd Oct. 1861	John Coope Haddan. Carlo Manasi.
Rifle sights and rifle sight guards, and a new or improved rifle cleaner.	2498	7th Oct. 1861	Bernard Peard Walker.
Signalling for rifle practice	2501	7th Oct. 1861	Wedderspoon Keiller.
Batteries for the purposes of war (*Discharging missiles.*)	2514	9th Oct. 1861	Robert William Sievier.
A new and useful improvement in fire-arms	2522	9th Oct. 1861	Frederick Curtis.
Improvements in the manufacture of cast steel and other metal tubes and in the machinery or apparatus employed therein, parts of which improvements are applicable to the manufacture of gun barrels and ordnance, and to the rifling of same	2533	10th Oct. 1861	Louis Christoph. William Hawksworth. Gustavus Palmer Harding.
An improved instrument to be attached to the bayonet or barrel of a rifle or other fire-arm for estimating distances.	2546	12th Oct. 1861	Edgar Corke.
Breech-loading rifles	2563	14th Oct. 1861	Mowbray Walker.
Gun and ammunition carriages	2581	17th Oct. 1861	Reuben Hayes.
Improvements in the construction of targets and in signal apparatus to be used therewith	2593	18th Oct. 1861	John Crosthwaite. Thomas Edward Arman.
Construction of breech-loading ordnance	2603	18th Oct. 1861	Thomas William Cowan.
Sights for rifles and ordnance	2619	19th Oct. 1861	Henry Bloxam, junior.
Double sighted double rifle guns for military and sporting purposes	2703	29th Oct. 1861	Oliver Bayliss.
Improvements in fire-arms and in cartridges	2731	31st Oct. 1861	Brownlow Hugh Mathew.
Rifled ordnance and projectiles	2736	1st Nov. 1861	Lynall Thomas.
Fire-arms and ordnance (*Communicated by Benjamin Franklin Joslyn.*)	2785	6th Nov. 1861	George Davies.
A vessel and gun or guns connected therewith for use in naval warfare.	2805	8th Nov. 1861	Charles William Siemens.
Means of firing or igniting explosive projectiles	2852	13th Nov. 1861	Sir William George Armstrong.
Breech-loading fire-arms (*Communicated by George White.*)	2908	19th Nov. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Mode of manufacturing and constructing wrought iron ordnance.	2918	20th Nov. 1861	Lynall Thomas.
Improved sight apparatus and sight for fire-arms and ordnance.	2978	26th Nov. 1861	George Lambton Purchase.
Cases for holding and supplying caps to the nipples of rifles and other fire-arms.	2992	27th Nov. 1861	John Henry Soller.
Improvements in ordnance applicable also to small arms.	3018	30th Nov. 1861	John William Gibson.
An improved apparatus for holding and placing percussion caps on fire-arms - - - -	3056	6th Dec. 1861	Edgar Darius Seely. Thomas Foster Wells. George Arthur Phillips.
Breech-loading ordnance and the projectiles to be used therewith, which may also be applied to small arms.	3062	6th Dec. 1861	Frederick Vetterlin.
Improvements in projectiles and ordnance and in apparatus to be used therewith.	3072	7th Dec. 1861	William Nelson Hutchinson.
Breech-loading cannon - - - - - (*Communicated by John Bryce and Benjamin de Forest.*)	3097	10th Dec. 1861	William Edward Newton.
An improved method of rifling or grooving the barrels of fire-arms and ordnance.	3166	18th Dec. 1861	Robert Scott.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services. (*Pouches for revolvers.*)	3250	28th Dec. 1861	Arthur Warner.
Improvements in fire-arms and in adapting bayonets or cutting or piercing weapons thereto. (*Communicated by Mathieu Louis Michel Descoutures.*)	3251	28th Dec. 1861	Michael Henry.
For Ammunition, *see* "CARTRIDGES," "GUNPOWDER," "SHOT."			
FIRE-ENGINES ; FIRE-ESCAPES ; EXTINGUISHING FIRES.			
Improvements in the method of directing the streams of water employed in extinguishing conflagrations, and in apparatus connected therewith.	91	12th Jan. 1861	Joseph Charlton.
Fire-escapes - - - - - -	281	2nd Feb. 1861	Augustus Lea Bricknell.
Portable or fire pumps and apparatus connected therewith.	372	13th Feb. 1861	William Roberts.
Improved mechanism for improving the draught in open fireplaces, the same apparatus being applicable to deadening or extinguishing fires in such fireplaces.	386	13th Feb. 1861	Edward Cradock.
Fire-escapes - - - - - -	883	8th April 1861	William Clayton.
Condensers - - - - - - (*Available in case of fire.*)	880	10th April 1861	Andrew Lamb.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ENGINES, &c.—*continued.*			
Steam fire-engines and pumps - - -	889	11th April 1861	James Shand. Samuel Mason.
Improved means and apparatus for conducting or forcing the flow of water. (*In case of fire.*) (*Communicated by Charles Douchain.*)	1152	7th May 1861	William Edward Gedge.
Fire-escapes - - - - - -	1164	8th May 1861	Louis Wyttenbach. Philippe Lugand.
An improved thermometrical fire-alarum and extinguisher.	1173	9th May 1861	George Carter.
Springs for rail-road cars and for carriages, and for many other purposes for which springs are used or required. (*For fire-engines.*)	1245	16th May 1861	Alexander T. Watson.
A cone preventing smoke and extinguishing fires in chimneys.	1471	10th June 1861	Auguste Louis César De Montagu.
Improved means of resisting and extinguishing fire in buildings or on board ship.	1691	3rd July 1861	Charles Gilfoy.
An improved mixture or liquid for extinguishing fire, applicable also for preparing or saturating various kinds of materials and fabrics for the purpose of rendering the same non-inflammable.	1709	5th July 1861	Osmund Williams.
Improved apparatus for extinguishing fires -	1714	5th July 1861	Lewis Roughton.
Improvements in beams and girders and in applying the same in buildings. (*Made hollow for conveying water.*)	1839	22nd July 1861	William Hood.
Arrangements in buildings and ships with a view to the extinguishment of accidental fire therein and also the ventilation thereof.	1841	22nd July 1861	Joseph Beattie.
Means of preventing the extension of fire in buildings.	1842	23rd July 1861	Charles Batty.
A fire preventive ceiling and apparatus for the extinction of fire in warehouses, stores, depôts and buildings.	1872	26th July 1861	Richard Rhod Swann.
Facilitating the extinguishing of fires in warehouses and other buildings - - - -	1923	3rd Aug. 1861	Edwin Tomlinson. George William Campbell Wilson.
Pumps applicable to steam and other fire-engines -	1925	3rd Aug. 1861	Moses Merryweather. Richard Moses Merryweather.
Portable pumps or engines for extinguishing fires and other purposes.	2187	2nd Sept. 1861	Joseph Hall.
Improvements in extinguishing fires in buildings and in apparatus employed therein.	2252	9th Sept. 1861	Charles Cheyne.
An improved portable self-acting water-engine for extinguishing fires and other purposes - -	2341	19th Sept. 1861	William Thomas Tongue. John Greer.
Improvements in the construction of and appliances to steam ships or other vessels - - (*For extinguishing apparatus.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
An improved double acting force or lift pump for ships, fire-engines and other purposes.	2344	19th Sept. 1861	John Graham.
Improvements applicable to buildings in order to facilitate the extinguishing of any conflagration which may happen therein.	2916	20th Nov. 1861	William Podmore Bayliss.
An improved fire-escape - - - -	2963	25th Nov. 1861	George Clarke.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ENGINES, &c.—*continued.*			
Pumps (*For extinguishing fires.*)	3048	5th Dec. 1861	John Knowelden.
An improved arrangement of fire-escape (*Communicated by Aaron Skute.*)	3135	13th Dec. 1861	Alfred Vincent Newton.
FIRE-PLACES, GRATES AND STOVES; FENDERS AND FIRE-IRONS; FIRE GUARDS; COAL-BOXES AND CINDER SIFTERS.			
Stoves, grates or fire-places	71	11th Jan. 1861	William Carson Corsan.
Stoves and ranges	83	11th Jan. 1861	Nathan Ager.
Manufacture of stove grates	143	18th Jan. 1861	John Jobson.
Means or apparatus for closing the passages of the chimneys from stoves and other fire-places.	429	21st Feb. 1861	James Moon.
Fire-places	479	25th Feb. 1861	William Dray.
Kitchen ranges	904	12th April 1861	Joseph Douglas.
An improved cooking stove	931	16th April 1861	Pierre Gipouloux.
An improved portable cinder sifting apparatus	968	19th April 1861	John Ridley.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Mode of and apparatus for warming and ventilating rooms and buildings.	1314	24th May 1861	Charles Batty.
An improvement or improvements in the manufacture of metallic fenders.	1339	29th May 1861	George Asher.
Improvements in the manufacture and ornamentation of metallic chimney-pieces or mantel-pieces, and in the ornamentation of metallic stoves and fire-places.	1340	29th May 1861	Henry Crichley.
An improved ironing stove	1464	8th June 1861	Juliana Martin.
Gas stoves	1497	11th June 1861	Charles Chalmers.
An improved smoke-consuming grate (*See* "FURNACES.")	1506	12th June 1861	Louis Jean Jacques Pètre.
Fire guards	1881	27th July 1861	James Beeten Herbert.
Stoves	2027	14th Aug. 1861	John Billing.
Smoke-consuming grates	2087	21st Aug. 1861	Auguste Jules Hennart.
Construction of fire grates for steam and other boilers and suitable to all kinds of fires.	2136	27th Aug. 1861	Jean Baptiste Fondu.
Fire grates and furnaces for domestic and other purposes. (*Communicated by Paul Baudet.*)	2250	9th Sept. 1861	John Henry Johnson.
An improved form of coal-box combining within itself a cinder sifter, an ash and dust pan, and receptacles for other requisites connected with domestic fire stoves.	2336	19th Sept. 1861	James Durrant.
An improved smoke-consuming stove	2419	27th Sept. 1861	Joseph Waller.
Construction of gas stoves for heating and warming	2491	5th Oct. 1861	Patrick O'Connor.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-PLACES, &c.—*continued.*			
Apparatus for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Construction of stove.*) (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
Improvements applicable to stoves or open fire-places for utilizing more of the heat therefrom than heretofore, also for economizing fuel and igniting same.	3004	28th Nov. 1861	Wilhelm Adolph Von Kanig.
Cinder sifters - - - - - -	3095	10th Dec. 1861	George Charles Lock.
Kitcheners or cooking ranges - - - -	3124	13th Dec. 1861	William Bell.
Improvements in cinder sifters and ash receptacles applicable to domestic fire grates.	3230	26th Dec. 1861	Thomas Standing.
Improvements in cooking stoves and ships' ranges (*Communicated by John Russell.*)	3237	26th Dec. 1861	Joseph Nottingham Palmer.
FISHING NETS, CATCHING FISH, HARPOONS.			
Rocket guns and rocket harpoons and appendages to be used therewith. (*Communicated by Thomas Welcome Roys.*)	450	22nd Feb. 1861	William Walker.
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore.	492	26th Feb. 1861	William Henry James.
Machinery for the manufacture of fishing and other nets. (*Communicated by Messrs. Felix Marie Baudouin and Achille Baudouin and Jean Baptiste François Jouannin.*)	2340	19th Sept. 1861	William Clark.
FLUES AND CHIMNEYS; CHIMNEY TOPS; CURING SMOKY CHIMNEYS; CHIMNEY WIND GUARDS.			
Apparatus for ventilating - - - - (*And for use as a wind guard.*)	6	2nd Jan. 1861	William Cooke.
Chimney and ventilating cowls - - -	133	17th Jan. 1861	George Lewingdon.
Improvements in the form and construction of chimney tops or appliances for surmounting chimneys in order to regulate the up currents and obviate the down draughts - -	207	26th Jan. 1861	James Durrant. Noel Alleyne Harris.
Chimney tops - - - - - -	227	28th Jan. 1861	John Gurney Mason.
Furnaces for treating iron ores - - -	262	31st Jan. 1861	Isaac Rogers.
Construction of charcoal and other kilns - - (*Distillation shafts.*)	297	5th Feb. 1861	George Williams.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FLUES, &c.—*continued.*			
Means or apparatus for closing the passages of the chimneys from stoves and other fire-places.	429	21st Feb. 1861	James Moon.
Chimneys - - - - - - - (*Communicated by Mr. Desanges.*)	503	27th Feb. 1861	Charles Stevens.
Improvements in the building of boilers and boiler flues for the consumption of smoke.	535	2nd March 1861	William Hendry.
An improved apparatus for drawing off smoke and gases.	540	2nd March 1861	Jacques Bernard Chaussenot.
Steam-boilers - - - - - -	690	19th March 1861	George William Hawksley. Mathew Wild.
An improved chimney head - - -	736	23rd March 1861	John Billing.
Steam-engines and boilers - - - (*Flues.*)	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stone-ware and plastic clays, adapted for the construction of fire-proof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Kitchen ranges - - - - - -	904	12th April 1861	Joseph Douglas.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Construction of locomotive engines - - (*Forming the funnel.*)	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
Improvements in the construction of steam-boilers and in the arrangement of the flues of steam-boilers - - - - - -	1424	6th June 1861	Hugh Rigby. Peter Warburton Lowe.
Improvements for economising fuel in evaporating and concentrating, chiefly applicable to the manufacture of chemicals; and in the apparatus connected therewith.	1462	8th June 1861	Joseph Roman.
Apparatus or means for cleaning chimneys or flues -	1467	8th June 1861	James McKay.
A cone preventing smoke and extinguishing fires in chimneys.	1471	10th June 1861	Auguste Louis César De Montagu.
Improvements in the form and construction of chimney tops or appliances for surmounting chimneys, in order to regulate the up currents and prevent the down drafts. - -	1504	12th June 1861	James Durrant. Noel Alleyne Harris.
Improvements in arranging sizing-houses, brew-houses, dye houses and other houses and chambers to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Improvements applicable to steam-boilers, furnaces and flues.	1529	14th June 1861	James Leeming.
Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
An improved wind guard for curing smoky chimneys.	1745	11th July 1861	William Cooke.
Glass furnaces - - - - -	1928	3rd Aug. 1861	Charles Schins.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FLUES, &c.—*continued.*			
Improvements in steam-boilers and in apparatus connected therewith - - - -	1948	6th Aug. 1861	William Galloway. John Galloway. John William Wilson.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.
Preparing the ends of welded tubes previous to their being fixed in plates. (*For boiler flues.*)	2230	6th Sept. 1861	John James Russell.
Chimney hoods and ventilators - - -	2436	30th Sept. 1861	Charles Hill Pennycook.
An improved chimney top, cap or cowl for the prevention of the descent of sooty exhalations, curing of smoky chimneys, and ventilation of apartments.	2518	9th Oct. 1861	James Walker.
Apparatus to be applied to chimneys or flues for improving the draft therein, and for preventing down drafts or the descent of smoke into apartments.	2590	17th Oct. 1861	Robert Aytoun.
Apparatuses for generating, superheating and condensing steam - - - - - (*Scrapers for boiler tubes.*)	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Method of and apparatus for preventing the injurious effects occasioned by smoke, sulphur, and the deleterious gases which escape from stacks, chimneys, calcining houses, chemical and other furnaces - - - - - -	2750	1st Nov. 1861	William Bickford Smith. William Bennetts.
Improvements in collecting and utilizing smoke, gases and such like products of combustion, rendering the same available for heating steam-boilers and other purposes where heat is required, which improvements are also applicable to the desulphurization of coal in making coke.	2962	25th Nov. 1861	John Halford.
A wind guard for curing smoky chimneys - -	3017	30th Nov. 1861	William Cooke.
Improvements in chimney tops for the prevention of down drafts in chimneys.	3070	7th Dec. 1861	George Thomas Bladon.
FOOD FOR CATTLE, POULTRY, &c.; CHAFF CUTTING; FEEDING ANIMALS.			
Chaff cutting machines - - - - -	468	23rd Feb. 1861	Joseph Warren.
Constructing the framing of various kinds of agricultural implements. (*Turnip cutters, chaff cutters, oil cake mills, &c.*)	1009	23rd April 1861	Edward Hammond Bentall.
Improved machinery for cutting or pulping roots to be used as food for cattle.	1010	23rd April 1861	Edward Hammond Bentall.
Improved machinery for cutting chaff - - (*Communicated by Johann Carl Rohrbeck.*)	1242	15th May 1861	William Edward Newton.
Improvements in apparatus for supplying liquid nourishment to infants and invalids, and in the application of such improvements to the feeding of animals.	1500	12th June 1861	John Albert Dauncey.
Certain improvements in machinery or apparatus for cutting turnips, roots or other substances -	1501	12th June 1861	John Hope. William Greenhalgh.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Food for Cattle, &c.—*continued.*			
Machinery or apparatus for cutting hay and chaff or other similar purposes.	1521	13th June 1861	Francis Gregory.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For cutting chaff.*)	2599	18th Oct. 1861	William Streather.
Improvements in the preparation of food for hogs, dogs, cats and poultry, and in apparatus for the same.	2876	15th Nov. 1861	James Spratt.
Improvements in machinery for cutting hay, straw and other vegetable substances.	3242	27th Dec. 1861	Thomas Bright
Fortifications, Batteries, Ships of War, Gun Boats, Armour Plated Ships.			
Constructing submerged works - - - (*Forts, defences, &c.*)	93	12th Jan. 1861	Joseph Gibbs.
An improvement in constructing forts, screens and other like defences - - - - -	152	19th Jan. 1861	Charles William Lancaster. James Brown. John Hughes.
Construction of ships and other vessels for war purposes.	206	25th Jan. 1861	Charles Lungley.
Improvements in the manufacture of armour plates for gun boats and land batteries, and in machinery and furnaces used in the said manufacture.	214	26th Jan. 1861	John Arrowsmith.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
Armour or metal covering for iron cased ships of war.	326	9th Feb. 1861	Charles James Richardson.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For armour plates.*)	482	25th Feb. 1861	George Clark.
Arrangements and construction of armour or iron clad steam or other ships.	533	2nd March 1861	Robert Griffiths.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.
Improvements in and in the mode or modes of applying and securing the metal plates of armour plated ships or vessels and other armour plated structures.	544	4th March 1861	John Coope Haddan.
Protecting ships and fortifications - - -	668	16th March 1861	Edward Charles Morgan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FORTIFICATIONS, &c.—*continued.*			
Marine propulsion - - - - - (*Shielding the propelling apparatus from projectiles.*) (*Communicated by Edward Bruce Boughton Barker.*)	673	16th March 1861	George Henry Birkbeck.
Improvements in or connected with ships or vessels	782	30th March 1861	William Simons.
Improvements in ports and apparatus for opening and closing the port holes of ships of war, which are also applicable to embrasures of fortifications.	837	5th April 1861	Charles Burn.
Construction of iron vessels of war - - -	1005	23rd April 1861	Joseph D'Aguilar Samuda.
Construction of radial traversing carriages - - (*For construction of forts.*)	1128	4th May 1861	Edward Pease Smith.
Improvements in armour plates or bars for protecting ships and other structures, and in fixing the same.	1198	11th May 1861	Charles William Lancaster.
Form and construction of ships or vessels and of arched ribs for roofs, domes and bridges - -	1202	11th May 1861	George Fowler Jones. James Jones.
Improvements in plates to be used in ships and other structures for receiving armour plates or bars, and in the means of fixing such armour plates.	1275	18th May 1861	John Hughes.
Construction of iron ships, batteries and forts -	1289	20th May 1861	Edward Humphrys.
Armour coating for ships, fortifications and other structures.	1388	3rd June 1861	George Benjamin Vaughan Arbuckle.
Protecting ships of war and land batteries from the effects of projectiles.	1449	7th June 1861	Edward Alfred Cowper.
Improvements in the adaptation of plates or shields to fixed and floating batteries and also ships, for the purpose of more effectually resisting shot or other projectiles.	1508	12th June 1861	Joseph Drew.
Metal casing or armour for the defence of ships and batteries.	1527	14th June 1861	William Cave Thomas.
Improvements in batteries and in breech-loading ordnance and projectiles for the same. (*Communicated by Mr. Mathieu Castay and Baron Henri de Rivière.*)	1550	17th June 1861	William Clark.
Mounting and fitting ships' guns and other ordnance.	1564	18th June 1861	James Alfred Limbert.
Manufacture of armour plates for defensive purposes.	1781	15th July 1861	William Rigby.
An improved mode of building ships and floating batteries, applicable also in part to the construction of fortifications.	1814	18th July 1861	Jasper Wheeler Rogers.
Improvements in the manufacture of ships' armour plates and other heavy forgings, and in the machinery or apparatus employed therein. (*Communicated by Hyppolite Ulysse Petin and Jean Marie Gaudet.*)	1825	19th July 1861	John Henry Johnson.
Certain improvements in the construction, armament and equipment of batteries floating or otherwise, for war purposes.	1873	26th July 1861	John Frederick Bourne.
Mode of fastening iron armour plates to ships' sides.	1938	5th Aug. 1861	Charles Burn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FORTIFICATIONS, &c.—*continued.*			
Improvements in protecting ships of war and land batteries from the effects of projectiles.	1954	6th Aug. 1861	Edward Alfred Cowper.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
Improvements in the construction of armour plates and in their application to ships and batteries.	2125	26th Aug. 1861	John Lyon Field.
Manufacture of armour plates for the protection of vessels of war, floating or other batteries.	2216	5th Sept. 1861	John Napier.
Machinery for rolling iron or other metals - - (*Armour plates.*)	2218	5th Sept. 1861	John Napier.
Constructing ships or vessels - - - (*War ships.*)	2246	9th Sept. 1861	William Simons.
Construction, manufacture and mode of securing armour for the protection of ships and fortifications against projectiles.	2315	17th Sept. 1861	Francis Wrigley.
A new method of arming the bow of a ship with a shell and a beak to be fitted or unfitted at pleasure and to be used conjointly or separately.	2337	19th Sept. 1861	Charles Walter Eddy.
An improved method of applying wrought iron or steel plates to the covering and protection from the effects of shot and shell, of forts, buildings, floating vessels and other constructions.	2414	27th Sept. 1861	Francis Webb Shields.
An improved method of mailing ships of war -	2437	30th Sept. 1861	Wyvill James Christy.
Batteries for the purposes of war - - -	2514	9th Oct. 1861	Robert William Sievier.
Armour plated ships - - - - -	2600	18th Oct. 1861	William Sadler.
Improvements in armour plates for ships and in securing the same to the sides of a vessel.	2633	21st Oct. 1861	John Toward.
Construction of iron vessels and iron plated ships of war.	2644	23rd Oct. 1861	Alfred Bevan.
Mode of connecting and attaching armour plates when applied to ships, forts, batteries and such like.	2681	26th Oct. 1861	Nathaniel Cox.
Construction of sailing ships and other vessels - (*Gun boats.*)	2720	30th Oct. 1861	Evan Leigh.
Mode of combining together and securing to the sides of navigable vessels and water batteries, armour plates of iron or steel.	2780	5th Nov. 1861	John Beresford Love.
A vessel and gun or guns connected therewith for use in naval warfare.	2805	8th Nov. 1861	Charles William Siemens.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, ship-building, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
Use, application and manufacture of iron or steel as armour for ships or batteries.	3068	7th Dec. 1861	George Clark.
Applying armour or thick plating to ships and other structures.	3086	9th Dec. 1861	William Mason.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FORTIFICATIONS, &c.—*continued.*			
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
Improvements in armour and in making and applying the same for protecting wood and iron ships of war and batteries.	3182	19th Dec. 1861	William Tate.
FUEL; TREATING COAL; PREPARING FIRE-WOOD; FIRE-LIGHTERS.			
An improvement or improvements in treating coal and other bituminous minerals and peat for the purpose of obtaining solid and liquid hydro-carbons therefrom. (*See* "DISTILLING,—*bituminous.*")	36	5th Jan. 1861	William Mattieu Williams.
Generating heat for locomotive, marine and other boilers and furnaces.	92	12th Jan. 1861	The Honorable William Edward Fitz-Maurice.
Improvements in the manufacture of fuel and in apparatus connected therewith.	116	15th Jan. 1861	Antoine Germain Lasserre.
Machinery for reducing wood into chips or shavings (*See* "PAPER.")	459	23rd Feb. 1861	Armand Louis André Herbelot.
Preparing coal used in the manufacture of artificial fuel.	1051	26th April 1861	Ferdinand Charles Warlich.
Certain improvements in machinery for the manufacture of artificial fuel.	1149	7th May 1861	Jean Baptiste Jarlot.
Apparatus used in getting coal - - -	1302	22nd May 1861	George Edmond Donisthorpe.
Obtaining products from sea weeds - - (*Pitch for fuel.*)	1411	4th June 1861	Edward Charles Stanford.
An improved crushing and pulverizing machine - (*For coal.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Manufacture of peat fuel - - - -	1491	11th June 1861	Patrick Moir Crane.
Improvements in the manufacture of fuel from peat and in apparatus employed therein, parts of which are applicable to the moulding of bricks, tiles and other like materials.	1592	20th June 1861	Charles Hodgson.
An improved method of partially drying peat before removing the same from the bog.	1593	20th June 1861	Charles Hodgson.
Glass furnaces - - - - - (*Utilizing waste heat for drying fuel.*)	1928	3rd Aug. 1861	Charles Schinz.
Machinery or apparatus for separating mineral ores, coal and other substances from impurities.	2024	14th Aug. 1861	Edmund Edwards.
A new and improved composition to be used as a fuel and in the lighting of fires.	2053	19th Aug. 1861	William Bennett.
Preparation, application and manufacture of peat - (*For kindling fuel.*)	2058	19th Aug. 1861	William Henry Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FUEL, &c.—*continued.*			
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*Turf for fuel.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
An improved fuel - - - - - -	2339	19th Sept. 1861	Edgar Breffit.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Employing hydrogen gas as fuel.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Manufacture of peat - - - - - (*Communicated by Auguste Marcelin Manrique Comte de Lara et du Ren.*)	2412	26th Sept. 1861	William Clark.
Treating peat to render it useful as fuel and for illuminating and metallurgical purposes.	2761	2nd Nov. 1861	George Evans.
Machinery or apparatus for preparing or manufacturing fuel - - - - - -	2893	18th Nov. 1861	Pierre André. Jean François Pline-Faurie. Joseph Pierre Richard.
Improvements applicable to stoves or open fireplaces for utilizing more of the heat therefrom than heretofore, also for economizing fuel and igniting same. *See also* "CHARCOAL."	3004	28th Nov. 1861	Wilhelm Adolph Von Kanig.
FULLING AND FELTING; FELTED FABRICS; FLOCK.			
Embroidering or ornamenting woven fabrics, felts or other similar materials.	314	8th Feb. 1861	Adolphe Drevelle.
Manufacture and renovation of woven fabrics -	518	28th Feb. 1861	Charles Beslay.
Machinery for fulling felt hats and other felted goods.	780	30th March 1861	Giuseppe Mateo Coppo.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making flock hanging paper.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of hats - - - - -	1025	24th April 1861	William Wilson.
Manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Improvements in machines for fulling woollen and other fabrics and in the method of driving the same.	1615	24th June 1861	James Ferrabee.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FULLING, &c.—*continued.*			
Manufacture of waterproof felt	1651	28th June 1861	Alfred Ford.
An improved material particularly adapted for the scouring, cleansing and fulling of woollen or other cloths.	2384	24th Sept. 1861	James Fawcett.
Textile and felted fabrics	2943	23rd Nov. 1861	Charles Henry Julius William Maximilian Liebmann.
FURNACES AND FIRE-BOXES; SUPPLYING FURNACES WITH FUEL.			
The application of certain metals for the manufacture of "coaling," "swill" and similar baskets. (*For supplying coals to furnaces of steam ships.*)	9	2nd Jan. 1861	Walter Morgan.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus (*Valves for hot blast furnaces.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Generating heat for locomotive, marine and other boilers and furnaces.	92	12th Jan. 1861	The Honorable William Edward Fitz-Maurice.
Improvements in the manufacture of plate glass and in furnaces employed therein.	129	16th Jan. 1861	Robert Walter Swinburne.
Improvements in generating burning gases to be applied as a motive-power, and in apparatus for the same.	166	21st Jan. 1861	Jean Baptiste Pascal.
Furnaces	167	22nd Jan. 1861	Charles William Siemens. Frederick Siemens.
Manufacture of glass	197	24th Jan. 1861	Nathaniel William Dobeson. George Warren.
Improvements in the manufacture of armour plates for gun boats and land batteries, and in machinery and furnaces used in the said manufacture.	214	26th Jan. 1861	John Arrowsmith.
Furnaces for treating iron ores	262	31st Jan. 1861	Isaac Rogers.
Manufacture of the fire-boxes of locomotive and other tubular boilers.	355	12th Feb. 1861	Alexander Parkes.
Arrangement and construction of puddling and heating furnaces employed in the manufacture of iron and steel.	356	12th Feb. 1861	William Corbett.
Improved mechanism for improving the draught in open fire-places, the same apparatus being applicable to deadening or extinguishing fires in such fire-places. (*See* "AIR SUPPLYING.")	366	13th Feb. 1861	Edward Cradock.
Furnaces (*Communicated by Jean Gérard Charles Tenbrinck.*)	415	19th Feb. 1861	Michael Henry.
Furnaces	425	21st Feb. 1861	John Louch.
Improvements in the construction of furnaces for the prevention or consumption of smoke.	489	26th Feb. 1861	Edward Ettrick.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Forges - - - - - - - - (*Communicated by Martin Chretiennot, commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	499	26th Feb. 1861	John Henry Johnson.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.
Preventing incrustation in steam-boilers, in tanks for containing the feed for the same, and in bars for the furnaces thereof.	614	13th March 1861	James Farren.
Furnaces in which combustion is carried on for obtaining gases or gaseous products to be usefully applied. (*Communicated by Edouard Alphonse Jardin and Alfred Charles Marie Celestin Edgard Goussard.*)	681	18th March 1861	Michael Henry.
Steam-engines and boilers - - - (*Grate bars.*)	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in the construction of furnaces for heating steam-boilers, bakers' ovens and brewers' coppers, which improvements are applicable also to furnaces made use of for various other purposes.	779	28th March 1861	William Stratford.
Improvements in steam-engines and boilers and in the apparatus connected therewith. (*Grate bars of furnaces.*)	786	30th March 1861	John Cass.
Combustion of fuel for generating steam and for other purposes.	870	9th April 1861	William Henry Phillips.
Improvements in steam-engines and in boilers for the same.	890	11th April 1861	William Bury.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.
Improvements in the construction of furnaces for the better combustion of fuel and the prevention of smoke.	960	18th April 1861	William Benson.
Certain improvements in apparatus to be employed in connection with Cornish and other similar boilers for the purpose of consuming the smoke.	972	19th April 1861	John Jobson.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Mode of hardening and tempering crinoline flattened wire or sheet steel. (*Communicated by Mr. Edwin Goodwin.*)	1038	25th April 1861	Robert Gray.
Hardening and tempering steel - - -	1039	25th April 1861	Samuel Fox.
A smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes.	1121	4th May 1861	George Rydill.
A mode of promoting a more perfect combustion of fuel in furnaces and the manner of effecting the same.	1133	6th May 1861	Joseph Capron Tiffany.
Furnace bars - - - - - -	1185	10th May 1861	Thomas Long Jackson.
Furnaces - - - - - - -	1253	16th May 1861	Daniel Kinnear Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Boilers and furnaces	1297	21st May 1861	Thomas Sykes. Benjamin Clifford Sykes, M.D. James William Crossley.
Improvements in the construction and internal arrangement of furnaces, and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence	1344	29th May 1861	Thomas Hale. Arthur Wall.
Improvements in the fire bridges and tubes of steam-boilers, and in the manner of applying the same.	1442	7th June 1861	Robert Harlow.
Reverberatory and other furnaces	1445	7th June 1861	Henri de Simoncourt. John Kenyon Blackwell.
Improvements for economising fuel in evaporating and concentrating chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith.	1462	8th June 1861	Joseph Roman.
Improvements in marine steam-boilers, parts of which improvements are applicable to other steam-boilers, and in apparatus connected therewith.	1472	10th June 1861	Robert Armstrong.
Improved apparatus for supplying fuel to furnaces, preventing or consuming smoke, and economizing fuel.	1475	10th June 1861	William Weller.
An improved smoke-consuming grate	1506	12th June 1861	Louis Jean Jacques Pètre.
Improvements applicable to steam-boilers, furnaces and flues.	1529	14th June 1861	James Leeming.
Improvements in furnaces, boilers and condensers of steam-engines, part of such improvements being applicable to other purposes.	1572	19th June 1861	John Louch.
Smoke-consuming furnaces (*Communicated by Antoine Léonide Lacroix.*)	1588	20th June 1861	Charles Stevens.
A new or improved construction of caloric engines (*Communicated by Nicolas de Telescheff.*)	1633	26th June 1861	Marc Antoine François Mennons.
Apparatus for re-burning animal charcoal	1640	26th June 1861	John Cowan.
Treating gas in its passage from blast furnaces to the furnaces, stoves, boilers or other heating apparatus where the gas is employed.	1741	9th July 1861	Charles Cochrane.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
Steam-engines, boilers, furnaces and apparatus applicable thereto	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Forges (*Communicated by Martin Chretiennot, commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	1847	23rd July 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Fire-bars for furnace grates	1883	27th July 1861	Ewing Pye Colquhoun. John Robert Thomson.
Smoke-consuming furnaces	1915	1st Aug. 1861	John Cook.
Glass furnaces	1928	3rd Aug. 1861	Charles Schinz.
Grates of reverberatory and other metallurgic furnaces. (*Communicated by Adolphe Grisard-Vanzuylen.*)	1945	5th Aug. 1861	Marc Antoine François Mennons.
Puddling furnaces	1972	8th Aug. 1861	Richard Jukes.
An improved smoke-consuming apparatus	1984	9th Aug. 1861	Léonard Vassiviere.
An improved apparatus for collecting the gases which escape from furnaces. (*Communicated by Mr. Emil Langen.*)	2176	31st Aug. 1861	Edward Joseph Hughes.
Furnaces (*For heating boilers.*)	2188	2nd Sept. 1861	John Watson.
Improvements in smoke-consuming furnaces (*For boilers, &c.*) (*Communicated by Bernard Palazot.*)	2222	6th Sept. 1861	Marc Antoine François Mennons.
Improvements in the material and preparation of the material and apparatus for making potash, pearlash, and caustic potash of commerce.	2238	7th Sept. 1861	Nicholas Doran Proby Maillard.
Fire grates and furnaces for domestic and other purposes. (*For boilers.*) (*Communicated by Paul Baudet.*)	2250	9th Sept. 1861	John Henry Johnson.
Improvements in steam-boilers and furnaces whereby better to adapt them to burn all kinds of coal, more especially anthracite or stone coal	2305	16th Sept. 1861	William Juxon Hesketh. David Parsell.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately.	2499	7th Oct. 1861	Alexander Chaplin.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
An improvement or improvements in collecting the inflammable gases evolved from blast furnaces.	2623	21st Oct. 1861	Josiah Timmis Smith.
Ovens, kilns or furnaces for manufacturing or other purposes	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein.	2664	24th Oct. 1861	James Chesterman.
An improved furnace or fire-place especially adapted to the singeing of pigs.	2666	24th Oct. 1861	Robert Andrew Boyd.
Apparatuses for generating, superheating and condensing steam	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Construction of blast furnaces for smelting ores	2735	1st Nov. 1861	George Holcroft.
Method of and apparatus for preventing the injurious effects occasioned by smoke, sulphur and the deleterious gases which escape from stacks, chimneys, calcining houses, chemical and other furnaces	2750	1st Nov. 1861	William Bickford Smith. William Bennetts.
Improvements in steam generators and in furnaces for the same. (*Communicated by Alexandre Friedmann and Frederic Emile De Erlanger.*)	2778	5th Nov. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Furnaces for reducing zinc ores - - - (*Communicated by Adolphe Charlier.*)	2787	6th Nov. 1861	Alexander Prince.
Apparatus for the manufacture of gas, parts of which are also applicable for cooking purposes.	2795	7th Nov. 1861	John Richardson Wigham
Improvements in the treatment of zinc ores and in the apparatus employed therein, which improvements are also applicable to the manufacture of phosphorus. (*Communicated by Adrien Muller.*)	2920	20th Nov. 1861	John Henry Johnson.
Certain improvements in cupolas and furnaces for smelting or reducing ores, and for the re-melting of pig-iron - - - - -	2925	21st Nov. 1861	John Gilloes, junior. George Hinton.
A mode of utilizing the waste heat of furnaces used in reburning animal charcoal.	2964	25th Nov. 1861	Phineas Cowan.
Fire bars and furnaces - - - -	2967	26th Nov. 1861	James Brown.
An improved Cornish or other steam-boiler with smoke consumer and condenser, being also applicable for ventilation.	2982	27th Nov. 1861	George Rydill.
Furnaces for working iron ore - - - (*Communicated by Joseph Bonne.*)	2999	28th Nov. 1861	Charles Stevens.
Improvements in the treatment of ores for the manufacture of sulphuric acid, and in apparatus connected therewith, which apparatus is also applicable to the treatment of ores for separating metals therefrom.	3002	28th Nov. 1861	Peter Spence.
Improvements in steam-boiler furnaces and in setting certain kinds of steam-boilers - -	3011	29th Nov. 1861	Samuel Tonks. Job Brooks.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes, and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Broman.
Improvements in the manufacture of iron and steel and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - -	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter (*Blower for blast furnaces, &c.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Broman.
Improvements in steam generators and in fire bars employed therein. (*Communicated by Alexandre Friedmann and Emile d'Erlanger.*)	3243	27th Dec. 1861	Richard Archibald Broman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE;—BEDSTEADS, TABLES, CHAIRS, CRADLES AND NURSING-APPARATUS; CASTERS; BEDSTEAD-BOTTOMS.			
An improved table or article of furniture - -	40	5th Jan. 1861	William Luck.
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For making tables.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For furniture frames.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
Folding chairs, cots, and such like articles to sit and recline on.	174	22nd Jan. 1861	Henry Richard Cottam.
Improved spring apparatus applicable to bedsteads and other articles to which springs may be applied.	202	25th Jan. 1861	Samuel Needham.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For ornamenting furniture.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Improvements in the construction of a certain description of castor and in apparatus for manufacturing certain parts of such castors, which apparatus may also be applied for producing rounded bodies for other purposes. (*Communicated by Jean Baptiste Germain Clergeau.*)	371	13th Feb. 1861	Michael Henry.
An improvement in stools or seats - -	445	22nd Feb. 1861	Henry Hatchwell. Samuel Banfill Hatchwell.
Improvements in mechanical beds for invalids, applicable also to tables for anatomical or surgical operations. (*Communicated by Charles Augustin de Beriot.*)	490	26th Feb. 1861	George Davies.
An improved skating chair - - - (*Communicated by Frederick Ashley.*)	735	23rd March 1861	John Henry Johnson.
Construction of wardrobes - - - (*Communicated by Emmanuel Guyennet.*)	767	27th March 1861	Charles Denton Abel.
Manufacture of the posts and joints or connections of bedsteads and other articles of furniture.	847	5th April 1861	John Hutson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For inlaying furniture and cabinet work, making cradles, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of door and other knobs, and the ornaments of the pillars of metallic bedsteads and other articles of like manufacture.	978	20th April 1861	John Whitehouse.
A new or improved table expander - -	1165	8th May 1861	Joseph Fitter.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE, &c.—*continued.*			
An improvement in joints for articles in metal - (*For bedsteads.*)	1168	8th May 1861	Ebenezer Hoskins.
Billiard and bagatelle tables - - -	1260	17th May 1861	Samuel Pitts.
Construction of the sacking of bedsteads and couches and other like articles.	1270	18th May 1861	George Nevill.
Improvements in the manufacture of folding metallic chairs, bedsteads and sofas and other articles for sitting, lying or reclining upon, a part of which improvements may also be applied to other articles of metallic furniture.	1370	1st June 1861	Michael Burke.
Certain improvements in the construction of castors for furniture.	1385	3rd June 1861	Herbert Allman.
Expanding tables - - - -	1430	6th June 1861	Samuel Hawkins.
An improvement or improvements in the sacking of bedsteads and couches and other articles used for sitting, lying or reclining upon.	1444	7th June 1861	John Leeland.
Folding chairs, folding beds, folding arm chair beds, folding couch beds and other articles for sitting, reclining and lying upon.	1587	20th June 1861	Henry Lawford.
Improvements in the construction of children's nursery chairs, and in apparatus for use in combination with the same. (*Communicated by George Boss Hartson.*)	1594	20th June 1861	John Henry Bartholf.
Improvements in the construction of a certain description of castor and in apparatus for manufacturing certain parts of such castors, which apparatus may also be applied for producing rounded bodies for other purposes. (*Communicated by Jean Baptiste Germain Clergeau.*)	1648	27th June 1861	Michael Henry.
Ornamentation of certain cabinet furniture -	1661	29th June 1861	John Dyer.
An improved mode of treating tubes used for posts for metallic bedsteads and other purposes, and in the machine for producing the same, and which said machine is also applicable for cutting out and piercing articles of sheet metal such as washers, metallic bucket ears and other such like articles - - - - - -	1672	1st July 1861	Ferdinand Potts. Richard Cox.
Cornices, laths and panels for bedsteads and other articles of furniture.	1708	5th July 1861	John Hutson.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass.	1753	11th July 1861	William Wilkinson.
Foot and kneeling stools - - -	1791	16th July 1861	Daniel Holder, junior.
Improvements in the construction of reversible seats. (*Communicated by Thomas Rainey.*)	1957	6th Aug. 1861	Alfred Vincent Newton.
Manufacture of articles of furniture by utilizing certain parts of the cedar tree in such manufacture which have heretofore been considered and treated as waste.	2012	13th Aug. 1861	Jacques Guillaume Remy.
A substitute for castors for furniture - -	2099	22nd Aug. 1861	Richard Telford. James Sanders.
Improvements in the construction of casters -	2219	5th Sept. 1861	Charles Weightman Harrison.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE, &c.—*continued.*			
Improvements in sash fastenings, which improvements are also applicable to other purposes. (*Dining table fastenings.*)	2273	13th Sept. 1861	William Farlar.
Metallic bedsteads and sofa bedsteads - -	2346	19th Sept. 1861	Angelo James Sedley.
Castors - - - - - -	2352	20th Sept. 1861	Henry Walter. David Johnstone.
Spring stretchers or bedsteads for camp, hospital or general use.	2398	25th Sept. 1861	Godfrey Russell.
New and improved methods of attaching or fixing woodwork, ironwork, fittings or furniture to walls or buildings. (*See* "BUILDING.") (*Communicated by John Ackrill, Charles Maplestone and Frederic Kaweran.*)	2424	28th Sept. 1861	Samuel Wilton Rix.
A portable spring bedstead and mattrass moveable and fixed, a hammock bed and spring mattrass moveable and fixed.	2427	28th Sept. 1861	Joseph Moiroux.
An improvement in clasps for books, portfolios, desks and other similar articles.	2428	28th Sept. 1861	Thomas Potts.
Improvements in the manufacture of metal tubes for bedsteads and other purposes, and in the machinery employed therein.	2430	28th Sept. 1861	Charles Comer, junior.
Frames of metal bedsteads - - -	2595	18th Oct. 1861	Edward Peyton.
Improvements applicable to iron and other metallic bedsteads.	2640	22nd Oct. 1861	Howard Busby Fox.
An improvement or improvements in ornamenting metallic bedsteads and other articles of metallic furniture.	2724	30th Oct. 1861	Robert Walter Winfield.
Improvements in the mounting of cots or cradles -	2733	31st Oct. 1861	George Norman.
Producing or delineating ornamental lines and figures on metal and other surfaces. (*Mounts for cabinet work.*)	2746	1st Nov. 1861	Andrew Smith.
A new or improved table or apparatus for tailors to work at without sitting.	2825	9th Nov. 1861	Francis O'Reilly.
An improved mode of fastening doors and for other similar purposes. (*Drawers and desks.*)	2915	20th Nov. 1861	Joseph Cooper Croxford.
Improvements in the moulds or chills employed in casting corner blocks, dovetail grooves and other parts of metal bedsteads and other like articles, in frames for carrying such moulds, and in tubes for the pillars of bedsteads and other like articles - - - -	2919	20th Nov. 1861	Edward Peyton. William Fothergill Batho.
Laths for supporting bedding and cushions in bedsteads, couches, sofas and seats - -	2938	22nd Nov. 1861	Edward Peyton. William Fothergill Batho.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Parts of metal bedsteads, &c.*)	2944	23rd Nov. 1861	John Weems.
An improvement or improvements in fastening knobs to doors, drawers and other articles, and in connecting knobs to spindles.	2969	26th Nov. 1861	Robert Harcourt.
Construction of invalid bedsteads convertible into other articles of furniture for the use of invalids.	3022	2nd Dec. 1861	James Wakenell.
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes - - - - -	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, GASOMETERS, HOLDERS AND RETORTS.			
An improved apparatus for carburetting gas for gas lighting.	56	9th Jan. 1861	Edward Clarence Shepard.
Improvements in generating burning gases to be applied as a motive-power and in apparatus for the same.	166	21st Jan. 1861	Jean Baptiste Pascal.
Furnaces - - - - - - - (*Arrangement of gas generators.*)	167	22nd Jan. 1861	Charles William Siemens. Frederick Siemens.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapour, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining hydrogen and carbonic oxide.*)	650	15th March 1861	William Lorberg.
Improvements in the manufacture of gas and in the apparatus employed therein - -	652	15th March 1861	Frederick Trachsel. Thomas Clayton.
Apparatus for the manufacture of gas from coal oil or oleaginous substances and other purposes.	663	16th March 1861	John Ingham Taylor.
Furnaces in which combustion is carried on for obtaining gases or gaseous products to be usefully applied. (*Communicated by Edouard Alphonse Jardin and Alfred Charles Marie Celestin Edgard Goussard.*)	681	18th March 1861	Michael Henry.
Preparation of hydrated oxide of iron and the application of such prepared oxide for the absorption or separation of sulphur from certain gases.	769	27th March 1861	Jacob Geoghegan Willans.
An improved cooking stove - - - (*And for generating gas.*)	931	16th April 1861	Pierre Gipouloux.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas. (*Forming gas-holders.*)	946	17th April 1861	Henry Alexander Frederick Duckham.
Apparatus for and method of increasing the illuminating power of gas.	948	18th April 1861	Hugo Carstanjen.
Manufacturing oxygen gas and obtaining certain other products.	983	20th April 1861	James Webster.
Purification of coal gas - - - -	1008	23rd April 1861	Thomas Richardson.
A mode of preparing an oxidizing agent - -	1207	13th May 1861	Francis Puls.
Improvements in the manufacture of gas and in the apparatus connected therewith. (*Communicated by Messrs. Schaeffer and Walcker.*)	1397	4th June 1861	Alexander Prince.
Obtaining products from sea weeds - - - (*Gas for lighting and heating.*)	1411	4th June 1861	Edward Charles Stanford.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, &c.—*continued.*			
A new or improved manufacture of coal gas by the surplus or waste heat of the blast ovens and puddling furnaces used in the manufacture of iron.	1650	28th June 1861	Thomas Swinnerton.
Distillation of solid and liquid combustible matters (*Communicated by Mr. Etienne Charles Zacharie Bouchard.*)	1666	29th June 1861	William Clark.
Purifying gas - - - - - -	1717	6th July 1861	Robert Angus Smith.
Obtaining products from alkali waste and gas lime refuse. (*See* "SULPHUR.")	1726	6th July 1861	Alfred Noble.
Treating gas in its passage from blast furnaces to the furnaces, stoves, boilers or other heating apparatus where the gas is employed.	1741	9th July 1861	Charles Cochrane.
Improvements in the manufacture, application and combustion of gases, and in apparatus connected therewith.	1748	11th July 1861	Joshua Kidd.
Constructing gasometers and gasometer tanks -	2075	20th Aug. 1861	Frederick Gye.
Apparatus for freeing gases from dust and other particles of matter floating therein, and for causing vapours or gases to be absorbed by liquids.	2326	18th Sept. 1861	Edward Alfred Cowper.
Improvements in the mode of obtaining certain chemical substances and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - - (*Collecting nitrogenous gases.*)	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
Apparatus employed in the manufacture of gas -	2363	21st Sept. 1861	Henry Cockey. Francis Christopher Cockey.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Manufacture of muriate of iron for the purification of coal gas.	2396	25th Sept. 1861	Thomas Richardson.
Treating gas produced by blast furnaces in its passage from the blast furnaces to other furnaces, stoves, boilers or other heating apparatus where gas may be employed.	2397	25th Sept. 1861	John Vaughan.
Apparatus for the manufacture of gas - -	2473	3rd Oct. 1861	William Malam.
An improved gas regulator and purifier - - (*Communicated by Messrs. Jean Baptiste François Maliquet-Allegret and Lucien Victor Teste.*)	2495	5th Oct. 1861	William Clark.
Improved apparatus for generating gas - -	2504	7th Oct. 1861	Frederick John Evans.
An improved process of charging illuminating gas with the vapour of the hydruret of carbon, for the purpose of increasing its illuminating properties.	2527	10th Oct. 1861	William James Williams.
Apparatus for and method of increasing the illuminating power of gas. (*Communicated by Hugo Carstanjen.*)	2580	17th Oct. 1861	William Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, &c.—*continued.*			
Manufacturing oxygen gas and obtaining certain other products.	2607	19th Oct. 1861	James Webster.
An improved mode of and apparatus for carburetting gases for the purpose of illumination.	2618	19th Oct. 1861	Frederick John Evans.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - - - (*For distilling coals.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Treating peat to render it useful for fuel and for illuminating and metallurgical purposes.	2761	2nd Nov. 1861	George Evans.
Apparatus for the manufacture of gas, parts of which are also applicable for cooking purposes.	2795	7th Nov. 1861	John Richardson Wigham.
Improvements in generating hydrogen gas for illuminating or other purposes, and in apparatus used therein.	2815	9th Nov. 1861	François Henry Marie Côme Damiens Chevalier Finis De Lacombe.
Safety lamps - - - - - - - - (*For gas works.*) (*Communicated by Mr. Pierre Dernoncourt.*)	2829	11th Nov. 1861	William Clark.
Manufacture of gas - - - - - - -	2864	13th Nov. 1861	John Leslie.
A new mode of manufacturing gas for illuminating purposes.	2986	27th Nov. 1861	Hermann Brambach.
An improvement in the manufacture of gas and the apparatus connected therewith.	2993	27th Nov. 1861	Magnus Chren.
Improvements in the manufacture of iron and steel and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - - -	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
Improvements in the method of and apparatus for pumping elastic fluids. (*Pumping gas from the retort to the holder.*)	3184	19th Dec. 1861	Joseph Henry George Wells.
An improvement or improvements in treating coal and other bituminous minerals and peat in order to obtain solid and liquid hydro-carbons therefrom, and in apparatus to be used for that purpose.	3208	21st Dec. 1861	William Mattieu Williams.
Improvements in revivifying animal black or charcoal, in collecting ammoniacal gases generated in the revivification, in the clarification of saccharine liquors, and in apparatus employed in the revivification of the black and in the filtering of saccharine liquors. (*Communicated by Absolon Hippolyte Leplay and Jules François Joseph Cuisinier.*)	3275	31st Dec. 1861	Richard Archibald Brooman.

For Carbonic Acid Gas, *see* "AËRATING."
For Nitrous Acid Gas, *see* "ACIDS."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS AND OTHER BURNERS AND REGULATORS; GAS FITTINGS; LIGHTING GAS; PREVENTING ESCAPE OF GAS.			
Improved apparatus for regulating the flow of gas, part of which is applicable to the valves of steam-engines. (*Communicated by Mr. D. H. Williams.*)	95	12th Jan. 1861	Elijah Freeman Prentiss.
Gas regulators - - - - - (*Communicated by John Brunt.*)	110	15th Jan. 1861	Joseph Willcock.
Improvements in generating burning gases to be applied as a motive-power and in apparatus for the same. (*Lighting the gases.*)	166	21st Jan. 1861	Jean Baptiste Pascal.
Gas burners - - - - - -	221	28th Jan. 1861	Herbert William Hart.
An improved gas apparatus intended chiefly for lighting pipes, cigars and cigarettes. (*Communicated by Pierre Duchamp.*)	348	11th Feb. 1861	Richard Archibald Brooman.
A new or improved tap or stop cock for liquids, steam and gas. (*Communicated by Joseph Berger.*)	427	21st Feb. 1861	Charles Maschwitz, junior.
Improvements in the manufacture of gas and in the apparatus employed therein - - (*Construction of burners.*)	652	15th March 1861	Frederick Trachsel. Thomas Clayton.
Gas stopcocks - - - - - (*Communicated by Messrs. A. Massey, G. Jullien and E. Jullien.*)	707	21st March 1861	Marc Antoine François Mennons.
Improvements in the manufacture of nails, railway spikes or pins, and gas tube fastenings, and in machinery employed in the said manufacture	839	5th April 1861	David Brown. Noah Fellows. Edward Jones. William Brown.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
An improvement in gas burners - - - (*Communicated by William Benjamin.*)	1070	27th April 1861	William Edward Newton.
Gas burners - - - - - (*Communicated by Hubert Bosch.*)	1104	2nd May 1861	George Davies.
Improved means and apparatus for conducting or forcing the flow of water. (*Screw fastenings for gas openings.*) (*Communicated by Charles Douchain.*)	1152	7th May 1861	William Edward Gedge.
Gas regulators - - - - - (*Communicated by Emil Fleischhauer.*)	1236	15th May 1861	William Clark.
Safety and other lamps - - - -	1248	16th May 1861	William Renwick Bowditch.
Apparatus for regulating the supply of gas - - (*Communicated by Edouard Servier.*)	1268	18th May 1861	William Henry Bennett.
Gas chandeliers - - - - - (*Preventing escape of gas.*)	1343	29th May 1861	Comyn Ching.
Apparatus for regulating the pressure of gas - - (*Communicated by Henri Girond.*)	1350	30th May 1861	John Henry Johnson.
Improvements in the manufacture, application and combustion of gases, and in apparatus connected therewith.	1748	11th July 1861	Joshua Kidd.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
GAS BURNERS, &c.—*continued.*			
Apparatus whereby to regulate the passage or flow of gas, water and other fluids.	2426	28th Sept. 1861	Denny Lane.
An improved gas regulator and purifier - - (*Communicated by Messrs. Jean Baptiste François Maliquet-Allegret and Lucien Victor Teste.*)	2495	5th Oct. 1861	William Clark.
Apparatus for measuring and regulating the pressure of gas.	2516	9th Oct. 1861	William Smith.
Lamps and lamp wicks - - - -	2523	9th Oct. 1861	William Palmer.
Lamps for burning coal oil and similar fluids - - (*Communicated by Joseph Thomas and Joseph Tindall Van Kirk.*)	2658	24th Oct. 1861	George Davies.
Improved apparatuses for indicating escapes of lighting gas from the conveying pipes and determining the precise leaking places of the said pipes. (*Communicated by Charles Antoine Fournier.*)	2692	26th Oct. 1861	Charles Stevens.
Gas burners - - - - -	2711	29th Oct. 1861	John Eaglesfield.
Lamps and utensils thereof - - - -	3013	29th Nov. 1861	Pacifico Tagliacozz
Turning apparatus for making gas burners -	3090	10th Dec. 1861	Hector Alexander.
For Gas Pipes, *see* "PIPES."			
GAUGES, SAFETY PLUGS, WATER LEVEL INDICATORS.			
An improved high and low water indicator for steam and other boilers.	261	31st Jan. 1861	Sylvester Wiggin W
An improved steam gauge - - - -	375	14th Feb. 1861	George Searby.
An improved alarm whistle applicable to steam-boilers and indicating the level of the water therein.	428	21st Feb. 1861	Jules Dutilleul.
Glass water-gauges and pet-taps of steam-boilers -	474	25th Feb. 1861	John Pinchbeck.
Apparatus for preventing the explosion of steam-boilers. (*Communicated by Charles Voelckner.*)	592	9th March 1861	Henry Bernoulli Ba
Water, steam and mercury gauges - - -	644	15th March 1861	William Collins.
Whistles or water indicators for steam boilers - -	659	15th March 1861	Joseph Penn.
Pressure gauges - - - - - (*Communicated by John Leavens.*)	897	11th April 1861	William Edward Ne
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
An improvement or improvements in the manufacture of the bezels or rings used in glazing the dials of clocks, barometers and steam gauges and for other like purposes.	961	19th April 1861	Arthur Frederick E
Improved apparatus for regulating the water level in steam-boilers. (*Communicated by George Washington Rains.*)	1044	25th April 1861	Alfred Vincent New

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAUGES, &c.—*continued.*			
Lubricating-apparatus for lubricating the journals and bearings of shafts and other frictional surfaces of machinery.	1170	8th May 1861	Henry Swan.
Instruments for measuring, indicating and regulating the pressure or flow of fluids.	1366	31st May 1861	Paul Cameron.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*Gauges.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
Plummets and gauges for indicating the depth and the height or level of liquids.	1545	17th June 1861	David Blair White.
Apparatus and fittings connected with steam-engines and boilers. (*Water gauge.*)	1750	11th July 1861	James Farron.
Improvements in steam-boilers and in apparatus connected therewith - - - -	1948	6th Aug. 1861	William Galloway. John Galloway. John William Wilson.
Steam-engines and boilers - - -	1979	8th Aug. 1861	Henry Kinsey.
Steam-boilers and generators - - -	2255	10th Sept. 1861	John Anthony.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
GLASS; APPLICATIONS OF GLASS.			
Improvements in the manufacture of plate glass and in furnaces employed therein.	129	16th Jan. 1861	Robert Walter Swinburne.
Furnaces - - - - - - - (*For melting glass.*)	167	22nd Jan. 1861	Charles William Siemens. Frederick Siemens.
Manufacture of glass - - - -	197	24th Jan. 1861	Nathaniel William Dobeson. George Warren.
Improvements in the ornamenting of glass -	208	26th Jan. 1861	Charles Bishop.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes or bodies. (*For glass shades.*)	334	9th Feb. 1861	Josiah George Jennings.
Improvements in envelopes and letters and in the mode of securing them, also in the seals or seal impressions or wafers used for such purpose. (*Glass seals or wafers.*)	409	19th Feb. 1861	William Pidding.
Apparatus for the manufacture of articles of earthenware and of other plastic materials.	470	23rd Feb. 1861	Thomas Spencer.
An improvement or improvements in glass chimneys for lamps with flat wicks.	472	23rd Feb. 1861	James Hinks.
Glass water-gauges and pet-taps of steam-boilers -	474	25th Feb. 1861	John Pinchbeck.
Manufacture of glass - - - -	554	5th March 1861	Tony Petitjean.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GLOVES, &c.—*continued.*			
Machinery or apparatus for manufacturing woven seamless gloves. (*Communicated by Messrs. Jean Bezon and Alphonse Berthod.*)	1827	20th July 1861	Edward Thomas Hughes.
Method of fastening shoes, stays, gloves and other wearing apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
Fastenings for gloves, belts and other articles -	2151	29th Aug. 1861	Victor Alexandre Janvier.
An improvement or improvements in the manufacture of certain descriptions of needles. (*For glove making.*)	2385	24th Sept. 1861	James Cottrill.
Fastenings for gloves, belts and other articles -	2610	19th Oct. 1861	Théophile Lepeinteur.
Preparation or treatment of skins and hides - (*For manufacture of gloves.*) (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.
Gloves - - - - - - - (*Communicated by Mr. Alfred Alexander Abdon Cressent.*)	3087	9th Dec. 1861	William Clark.
Treatment and application to various useful purposes of light spirituous liquids. (*As detergents in cleansing gloves, &c.*)	3175	18th Dec. 1861	Charles Edward Symonds.
GOVERNORS AND INDICATORS OF SPEED AND POWER FOR STATIONARY ENGINES AND MACHINERY; STARTING, STOPPING AND REVERSING APPARATUS; MACHINERY-BREAKS.			
Machinery or apparatus for measuring and registering the lengths of woollen, flax, cotton and other fabrics, applicable to registering lengths, distances and revolutions generally. (*Suitable for revolving shafts, &c.*)	23	4th Jan. 1861	William Henry Hore.
Governors for regulating the speed of steam and other engines.	39	5th Jan. 1861	John Hamilton.
Governors for steam and other engines - -	90	12th Jan. 1861	Thomas Warwick.
Machinery or apparatus for governing or regulating the speed of steam-engines or other motive-power.	188	24th Jan. 1861	Thomas Haworth.
Shutting off the steam and operating upon the breaks of engines employed in lowering into and lifting from mines or pits.	203	25th Jan. 1861	Jesse Law.
Improvements in apparatus for providing against accidents in hoisting machinery, part of which improvements are applicable to railway carriage coupling links - - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Looms - - - - - - - (*Break apparatus.*)	301	5th Feb. 1861	John Leeming.
Machinery for spinning and doubling cotton and other fibrous substances. (*Stopping spindles.*)	363	13th Feb. 1861	Ellis Butterworth.
Looms for weaving - - - - - -	387	15th Feb. 1861	Allen Senior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GOVERNORS, &c.—*continued.*			
Improvements applicable to the government or regulation and registration of excessive speed in hoisting-apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
Apparatus for governing or regulating the speed of steam and other engines and machines.	430	21st Feb. 1861	James John Miller, junior.
Centrifugal governors for marine and other steam-engines and other motors. (*Communicated by Charles Talbot Porter.*)	432	21st Feb. 1861	William Edward Newton.
Construction of windlasses and implements applicable to steam cultivation - - - - (*Anchoring windlasses.*)	484	25th Feb. 1861	James Howard. Edward Tenney Bousfield.
Improvements in steam-engines and boilers, and in propelling and steering vessels. (*Regulating speed of the engines.*)	509	27th Feb. 1861	William Weallens.
Improved apparatus to be used in the manufacture of paper, applicable also to controlling the motion of travelling webs and fabrics. (*Communicated by F. Thiry*).	543	4th March 1861	Ephraim Sabel.
Improvements in steam-engines and boilers, and in apparatus connected therewith. (*Governors; water wheel governors.*)	786	30th March 1861	John Cass.
A new or improved steam brake - - -	821	3rd April 1861	Thomas Wright. Hugh Wright.
Machinery employed in the manufacture of iron -	825	4th April 1861	John Gay Newton Alleyne.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus. (*Stop mechanism.*)	859	8th April 1861	John Clark.
Machinery or apparatus for preparing fibrous materials to be spun - - - - - (*Stop motions.*)	903	12th April 1861	Joseph Ward. Rhodes Greenwood.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires. (*Stopping wire covering machines.*)	924	15th April 1861	Thomas Miller.
Centrifugal governors for steam-engines - -	994	22nd April 1861	Anthony Dugdale.
Improvements in windlasses worked by capstans, also in the means of stopping or checking the chains in connection therewith.	1043	25th April 1861	Thomas Moore.
An improved chain cable controller for ships' windlasses to prevent riding of cable in paying out and heaving in of same - - - -	1080	1st May 1861	Thomas Alfred Kendal. Martin Dadd Rogers.
Break or stopping gear of centrifugal machines -	1094	2nd May 1861	John Charles Wilson.
Machinery for steam vessels - - - (*Starting or stopping the engines.*)	1118	3rd May 1861	Edward Humphrys.
Certain improvements in machinery for planing lumber. (*Reversing movement.*) (*Communicated by Mr. Henry Dawes Stover.*)	1206	11th May 1861	William Clark.
Machinery or apparatus for sizing warps or yarns - (*Stopping the machine.*)	1395	4th June 1861	Stephen Hargreaves. Robert Holden. Henry Holt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GLOVES, &c.—*continued.*			
Machinery or apparatus for manufacturing woven seamless gloves. (*Communicated by Messrs. Jean Bezon and Alphonse Berthod.*)	1827	20th July 1861	Edward Thomas Hughes.
Method of fastening shoes, stays, gloves and other wearing apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
Fastenings for gloves, belts and other articles -	2151	29th Aug. 1861	Victor Alexandre Janvier.
An improvement or improvements in the manufacture of certain descriptions of needles. (*For glove making.*)	2385	24th Sept. 1861	James Cottrill.
Fastenings for gloves, belts and other articles -	2610	19th Oct. 1861	Théophile Lepeinteur.
Preparation or treatment of skins and hides - (*For manufacture of gloves.*) (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.
Gloves - - - - - - - (*Communicated by Mr. Alfred Alexander Abdon Cressent.*)	3087	9th Dec. 1861	William Clark.
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GOVERNORS AND INDICATORS OF SPEED AND POWER FOR STATIONARY ENGINES AND MACHINERY; STARTING, STOPPING AND REVERSING APPARATUS; MACHINERY-BREAKS.			
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Improvements in apparatus for providing against accidents in hoisting machinery, part of which improvements are applicable to railway carriage coupling links - - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Looms - - - - - - - (*Break apparatus.*)	301	5th Feb. 1861	John Leeming.
Machinery for spinning and doubling cotton and other fibrous substances. (*Stopping spindles.*)	363	13th Feb. 1861	Ellis Butterworth.
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Improvements applicable to the government or regulation and registration of excessive speed in hoisting-apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
Apparatus for governing or regulating the speed of steam and other engines and machines.	430	21st Feb. 1861	James John Miller, junior.
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Machinery employed in the manufacture of iron -	825	4th April 1861	John Gay Newton Alleyne.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus. (*Stop mechanism.*)	859	8th April 1861	John Clark.
Machinery or apparatus for preparing fibrous materials to be spun - - - - - - (*Stop motions.*)	903	12th April 1861	Joseph Ward. Rhodes Greenwood.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires. (*Stoppiny wire covering machines.*)	924	15th April 1861	Thomas Miller.
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An improved chain cable controller for ships' windlasses to prevent riding of cable in paying out and heaving in of same - - - -	1080	1st May 1861	Thomas Alfred Kendal. Martin Dadd Rogers.
Break or stopping gear of centrifugal machines -	1094	2nd May 1861	John Charles Wilson.
Machinery for steam vessels - - - (*Starting or stopping the engines.*)	1118	3rd May 1861	Edward Humphrys.
Certain improvements in machinery for planing lumber. (*Reversing movement.*) (*Communicated by Mr. Henry Dawes Stover.*)	1206	11th May 1861	William Clark.
Machinery or apparatus for sizing warps or yarns - (*Stopping the machine.*)	1395	4th June 1861	Stephen Hargreaves. Robert Holden. Henry Holt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GOVERNORS, &c.—*continued.*			
Improvements in implements for pulverizing, ploughing and grubbing land, and in applying motive-power for working agricultural implements, parts of which improvements are applicable to condensing-engines - - - (*Regulating speed of drums.*)	1402	4th June 1861	James Lamb Hancock. Frederick Lamb Hancock.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*Indicating speed of machines.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
Hay-making machines - - - (*Reversing.*)	1461	8th June 1861	James Howard. Edward Tenney Bousfield.
Valves for steam and other engines. - - (*Reversing.*)	1474	10th June 1861	David Rollo.
Machinery applicable to steam cultivation - (*Starting, stopping and reversing the winding apparatus.*)	1483	10th June 1861	Robert Romaine.
Machinery or apparatus for preparing and spinning cotton or other fibrous materials. (*Stop motion for drawing-frame.*)	1505	12th June 1861	Hugh Mason.
Improvements (partly for the purpose of preventing accidents) applicable to hoisting-machinery used in mills, warehouses and other places -	1511	12th June 1861	David Walmsley. John Rostron.
Certain improvements in self-acting mules for spinning cotton and other fibrous substances.	1535	15th June 1861	Robert Walker Pitfield.
Certain improvements in machines for planing, boring and turning - - -	1584	20th June 1861	James Fletcher. John William Fuller.
Indicators such as are used for ascertaining the power developed by steam-engines - -	1598	21st June 1861	John Hannan. John Hamilton.
Certain machines used in preparing to be spun and in spinning cotton, wool and other fibrous substances - - - -	1712	5th July 1861	Robert Lakin. John Wain.
Apparatus and fittings connected with steam-engines and boilers - - - -	1750	11th July 1861	James Farron.
Hot air engines - - - -	1818	19th July 1861	Philander Shaw.
Improvements in the manufacture of ships' armour plates and other heavy forgings, and in the machinery or apparatus employed therein. (*Reversing-gear.*) (*Communicated by Hyppolite Ulysse Petin and Jean Marie Gaudet.*)	1825	19th July 1861	John Henry Johnson.
Windlasses, capstans and other machinery for hoisting and lowering weights. (*Constructing the break.*)	2156	30th Aug. 1861	Robert Shaw.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
Certain improvements in power looms for weaving (*Reversing action of pattern chain.*)	2237	7th Sept. 1861	William Ainsworth. Ellis Heap. William Fielding. Eli Openshaw.
An improved machine for purifying and peeling corn. (*Starting and stopping.*)	2274	13th Sept. 1861	William Henry Delamare.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GOVERNORS, &c.—*continued.*			
Improvements in electro-magnetic engines for obtaining and applying motive-power. (*Reversing.*)	2303	16th Sept. 1861	John Reeves.
Steering-apparatus - - - - - (*Applying a break.*)	2304	16th Sept. 1861	Thomas Meriton.
Machinery for preparing cotton and other fibrous substances. (*Stopping drawing-frames.*)	2334	19th Sept. 1861	James Clough.
Apparatus whereby to regulate the passage or flow of gas, water and other fluids.	2426	28th Sept. 1861	Denny Lane.
Improvements in the construction of printing machines and in driving or actuating the same. (*Actuating the break.*)	2511	8th Oct. 1861	Samuel Bremner.
Improvements in lifting or hoisting apparatus whereby to insure the safety of the cage or article lifted when a rope or chain breaks or is overwound, and in hoists generally as applied to mills, warehouses and other buildings - (*Arresting descent of cage, &c.*)	2579	16th Oct. 1861	Joseph Lister. David Myers.
Braiding-machines - - - - - (*Mechanism for stopping.*) (*Communicated by Thomas James Sloan.*)	2604	18th Oct. 1861	John Henry Johnson.
Improvements in windlasses and in checking or stopping chains worked thereby.	2675	25th Oct. 1861	Thomas Moore.
Certain improvements in mules for spinning and doubling - - - - - (*Breaks.*)	2684	26th Oct. 1861	William Robertson. John Muir Hetherington.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	2742	1st Nov. 1861	James Higgins. Thomas Schofield Whitworth.
Machinery or apparatus for doubling or twisting yarns of worsted or other fibrous substances. (*Stopping the bobbins.*)	2757	2nd Nov. 1861	John French.
Certain improvements in machinery for combing, preparing and spinning cotton and other fibrous substances - - - - - - (*Stop motion.*)	2803	8th Nov. 1861	Benjamin Dobson. James Clough.
Steam-engine governors - - - - (*Communicated by Wellington Lee.*)	2878	15th Nov. 1861	William Edward Newton.
Apparatus for regulating and indicating the speed of steam-engines and other machinery.	2979	27th Nov. 1861	John Standfield.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - -	3058	6th Dec. 1861	John Bailey, William Henry Bailey.
Breaks - - - - - - - - (*For hoisting-apparatus.*) (*Communicated by Robert Napier.*)	3060	6th Dec. 1861	John David Napier.
Machinery or apparatus for spinning and doubling cotton and other fibrous materials - - (*Throwing out of gear.*)	3136	13th Dec. 1861	John Hetherington. Thomas Webb. James Craig.
Improvements in apparatus for governing or regulating the speed of steam and other engines.	3239	27th Dec. 1861	Thomas Silver.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING AND CRUSHING CORN, GRAIN, SEEDS, &c.; DRESSING FLOUR; MILL-STONES.			
Machinery or apparatus for pulverizing clay and other materials. (*Grain, &c.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Dressing or preparing the surface of mill stones - (*Communicated by Louis Wells Broadwell.*)	763	27th March 1861	William Spence.
Machinery or apparatus for grinding wheat and other grain.	806	1st April 1861	William Palmer.
Machinery for agricultural purposes - -	818	3rd April 1861	Thomas Edward Wilson.
An improved construction of bran duster - - (*Communicated by George Clark, Peter Elting, George Marsh and Alfred Marsh.*)	832	4th April 1861	Alfred Vincent Newton.
Machinery for dressing and cutting stone - - (*Millstones.*) (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Mills for grinding corn and other grain - - (*Communicated by Joseph Perrigault.*)	980	20th April 1861	Richard Archibald Brooman.
Constructing the framing of various kinds of agricultural implements. (*Corn crushers, &c.*)	1009	23rd April 1861	Edward Hammond Bentall.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
Mills - - - - - - (*Communicated by Jean Ellie.*)	1247	16th May 1861	Charles Stevens.
An improved crushing and pulverising machine - (*For corn, maize, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
An improved coffee-mill - - - -	1513	12th June 1861	Jean Pierre Girard.
Mills for the manufacture of barley and rice -	1562	18th June 1861	Andrew White Gibson.
Apparatus for grinding corn and other matters - (*Communicated by Charles Placide Nézeraux.*)	1690	3rd July 1861	George Davies.
An improvement in mills for grinding - -	2051	17th Aug. 1861	Pleasant Hart.
Means to be employed in the dressing or cracking of mill stones. (*Communicated by David Monroe Childs.*)	2107	23rd Aug. 1861	Augustus Bryant Childs.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
An improved machine for purifying and peeling corn.	2274	13th Sept. 1861	William Henry Delamare.
Apparatus for dressing flour - - -	2403	26th Sept. 1861	George Caldwell. John Young.
An improved machine for mixing, mincing and pounding.	2493	5th Oct. 1861	James Turner.
Improved machinery for dressing or cleaning wheat and other grain. (*Preparatory to grinding.*) (*Communicated by Samuel Bentz.*)	2555	12th Oct. 1861	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING CORN, &c.—*continued.*			
Machine to decorticate corn and seeds - - (*See* "THRASHING.")	2582	17th Oct. 1861	Louis Alexandre Joseph Deplanque.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For grinding corn.*)	2599	18th Oct. 1861	William Streather.
Machinery or apparatus for preparing grain for brewers. (*Crushing, &c.*)	2710	29th Oct. 1861	Richard Gibbon.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
An improved arrangement of driving gear - -	3042	4th Dec. 1861	Robert Kennedy. James Armstrong.
Improvements in thrashing-machines and in mills for grinding and in apparatus for raising or moving grain in granaries and other places -	3188	20th Dec. 1861	John Smith, junior. John Birch Higgs.
GRINDING AND CRUSHING MINERALS, CLAY, FIBROUS PLANTS, &c.; BREAKING STONE.			
Machinery or apparatus for pulverizing clay and other materials. (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Mechanism or apparatus for crushing or breaking up ores, stones and other hard substances -	236	29th Jan. 1861	William Smyth. Matthew Wasley.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Machines for breaking, crushing and reducing stones and other substances.	905	13th April 1861	James Eglington Anderson Gwynne.
Machinery or apparatus for breaking stones and other hard materials.	1209	13th May 1861	John Bermingham.
An improved crushing and pulverizing machine - (*For stones, ores, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Machinery or apparatus for manufacturing snuff -	1560	18th June 1861	William Fleming.
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres.	1894	29th July 1861	Edmond Hamborough Joynson.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For grinding clay.*)	2599	18th Oct. 1861	William Streather.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING MINERALS, &c.— *continued.*			
The use of hydraulic power for the breaking, crushing or pulverizing of quartz, blue stone or other stone or mineral of any description, and the use of a wrought iron lever or jaw in machines for crushing quartz or any other mineral, and the use of steel teeth and steel shield pieces for the levers or jaws in such machines.	2669	25th Oct. 1861	Enoch Chambers.
Machinery for breaking and crushing limestone and other hard substances.	2706	29th Oct. 1861	John Bibbington.
Machines for crushing and pounding stones, ore and other materials.	2981	27th Nov. 1861	François Frédérick Dumarchey.
GRINDING AND SHARPENING; FLAT GRINDING AND POLISHING; GRINDING SURFACES, EMERY, COMPOSITION FOR POLISHING.			
Machinery for grinding rollers and cylinders covered with card teeth.	15	3rd Jan. 1861	William Heywood.
Improvements in the ornamenting of glass - -	208	26th Jan. 1861	Charles Bishop.
An improved instrument for sharpening slate pencils, black lead pencils, lead pencils, crayons and such like articles.	545	4th March 1861	John James.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same. (*Stone for rubbers or grinding-surfaces.*)	877	9th April 1861	Frederick Ransome.
New or improved machinery for grinding and polishing swords, matchetts and knives, which said machinery may also be employed for grinding gun barrels and files and for other like purposes.	921	15th April 1861	Edgar Brooks.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Sharpening teeth of serrated discs.*)	1204	11th May 1861	William Henry Tooth.
Improvements in machinery for grinding the cards of carding-engines and in machinery for making the same.	1306	23rd May 1861	Charles Nuttall.
Manufacture of a material or composition for cleaning and polishing metals and glass. (*Communicated by Mr. Alexandre Cochet.*)	1468	8th June 1861	William Clark.
An improved crushing and pulverising machine - (*For emery.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Improvements in the pointing of steel or other wire for teeth of cards, and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING, SHARPENING, &c.—*continued.*			
New or improved machinery to be used in the manufacture of tin plates and terne plates and iron plates coated with lead - - - - (*Polishing.*)	1868	25th July 1861	Robert Kelly. John Shakespeare.
Improvements in the construction of machines for mincing meat and other substances. (*Sharpening the knives.*)	1953	6th Aug. 1861	Joseph MacMorran.
Manufacture or production of plate glass - - (*Rubbing or flattening.*)	2911	20th Nov. 1861	George Gwilliam.
Machinery or apparatus for polishing shoe heels, toe plates and other articles.	2934	22nd Nov. 1861	George James Farmer.
Hermetically stopping or covering jars, pots, vases and other like articles - - - -	3027	3rd Dec. 1861	André Marie Augustin Pichery. Pierre Louis Danais.
GUNPOWDER AND EXPLOSIVE COMPOUNDS; POWDER FLASKS.			
An improved method of igniting or firing gunpowder, gun cotton and other like explosive compounds in large and small fire-arms and ordnance, applicable also to the firing of explosive com pounds generally.	562	5th March 1861	Charles Hanson.
Making up or packing charges or small quantities of gunpowder, drugs or other articles.	752	25th March 1861	Thomas Bentley.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For powder flasks.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of gunpowder - - - -	1831	20th July 1861	Thomas Roberts. John Dale.
Powder flasks - - - - - -	1980	9th Aug. 1861	George Haycraft.
Improvements in the manufacture of metallic boxes and in machinery employed therein. (*For containing gunpowder.*)	2132	27th Aug. 1861	Emile Peltier.
A certain compound or certain compounds to be used as a substitute for gunpowder - -	2233	6th Sept. 1861	Edward Harrison. Thomas Shuttleworth Yates.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Producing an explosive compound.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Gunpowder suitable for blasting - - -	2679	25th Oct. 1861	James Lobb.
Improvements in the mechanism required for and in the manufacture and composition of gunpowder.	3206	21st Dec. 1861	William Bennetts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA AND INDIA-RUBBER. (*Preparing, Treating, Vulcanizing.*)			
Preparation of non-conducting substances for the deposition thereon of metals by electric action. (*As gutta-percha.*)	145	19th Jan. 1861	Bernard Piffard.
Improvements in treating gutta-percha, india-rubber and compounds containing one or both of those substances, and in machinery and apparatus employed therein.	263	31st Jan. 1861	John Chatterton.
Masticators or machines employed in the mastication of gutta-percha, india-rubber and other similar substances.	446	22nd Feb. 1861	Edwin Thomas Truman.
Machinery suitable for cutting india-rubber fillets -	467	23rd Feb. 1861	John Macmillan Dunlop.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Masticators or apparatuses for preparing gutta-percha, caoutchouc and other similar substances.	637	14th March 1861	Edwin Thomas Truman.
Preparing caoutchouc adapted especially to dental purposes. (*Communicated by Corneille Lambert Charles Cassimir Gobert.*)	697	20th March 1861	Richard Archibald Brooman.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
An improvement in the manufacture of gutta-percha	1114	3rd May 1861	Peter Augustin Godefroy.
Manufacture of gutta-percha and compounds thereof with other matters and substances.	1166	8th May 1861	John Rolfe Hunt.
An improvement in the treatment of india-rubber -	1192	10th May 1861	Peter Augustin Godefroy.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Reducing waste india-rubber.*)	1204	11th May 1861	William Henry Tooth.
Treatment of fatty and oily matters - - (*Obtaining artificial caoutchouc.*)	1410	4th June 1861	Heinrich Ludwig Buff.
Compounds of india-rubber and gutta-percha with other substances.	1580	19th June 1861	John Fisher Williams.
Machinery for splitting, dividing or shaving leather or skins or sheets of manufactured fabrics. (*Or india-rubber, gutta-percha, &c.*)	1906	31st July 1861	Joseph Follansbee Flanders.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Certain improvements in the manufacture and treatment of india-rubber and vulcanite as applied to various purposes - - -	2515	9th Oct. 1861	Isham Baggs. James Thomas Parkes.
Reworking waste vulcanised india-rubber - -	2574	16th Oct. 1861	Thomas Forster.
Preparing and treating gutta-percha and india-rubber.	2800	7th Nov. 1861	William Albert Shepard.
GUTTA-PERCHA AND INDIA-RUBBER AS APPLIED IN VARIOUS MANUFACTURES.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Pouches or receptacles for tobacco and other articles	104	14th Jan. 1861	James Horsey.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials. (*Vulcanite rollers.*)	189	24th Jan. 1861	Henry Henderson.
Tobacco pouches, purses and other such like receptacles - - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
Railway carriage wheels - - - - - (*Communicated by Ebenezer A. Lester.*)	226	28th Jan. 1861	William Edward Newton.
Construction of cables for telegraphic purposes -	260	31st Jan. 1861	Stephen Moulton.
Valves - - - - - - -	323	8th Feb. 1861	William Morris, junior.
Manufacture of bodies for caps, hats, bonnets, baskets, bags and reticules, and other similar articles of light work.	325	9th Feb. 1861	Hermann Freystadt.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes or bodies.	334	9th Feb. 1861	Josiah George Jennings.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles.	397	18th Feb. 1861	Robert Offord, junior.
Preparing warps for the manufacture of elastic fabrics. (*Preparing india-rubber strands.*)	414	19th Feb. 1861	Archibald Turner.
Apparatus for feeding infants and invalids -	439	22nd Feb. 1861	Benoit Lang.
Manufacture of pouches of india-rubber and india-rubber fabrics.	447	22nd Feb. 1861	Manuel Leopold Jonas Lavater.
An improved elastic horse collar - - - (*Communicated by Amedée Beaujouan.*)	458	23rd Feb. 1861	Charles Stevens.
Coating or covering metallic springs or bands for crinolines and other articles of dress.	461	23rd Feb. 1861	John William Wyatt.
Apparatus for suspending electric telegraph wires -	466	23rd Feb. 1861	William O'Shaughnessy Brooke.
Treating woollen and union cloths for surface finish	560	5th March 1861	Robert Brearley, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &C.—*continued.*			
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Telegraphic cables - - - - - -	579	7th March 1861	Thomas William Evans, M.D.
Improvements in the manufacture of boots, shoes and other coverings for the feet, and in tools for cutting the soles of such articles.	602	11th March 1861	John Thomas Hutchings.
India-rubber springs for railway and other uses -	613	13th March 1861	George Spencer.
Sheathing iron ships or vessels - - -	620	13th March 1861	George Frederick Muntz.
An invention relating to heads for lead pencils, ink erasers and other articles of like character. (*Communicated by Francis Pickard Hale, junior.*)	703	20th March 1861	Levi Lincoln Tower.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Manufacture of rubbers for the human teeth and gums.	788	30th March 1861	William Donald Napier.
Manufacture and insulation of telegraph cables and telegraphic wires in general, and of apparatus for laying marine telegraph cables.	800	1st April 1861	Richard Searle.
Improvements in carriage and other axles, and also in shafts and other parts of machinery exposed to the action of the atmosphere.	838	5th April 1861	William Richardson.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.
An improvement in or addition to certain kinds of breech-loading fire-arms and ordnance.	908	13th April 1861	Joseph Rock Cooper.
Gloves - - - - - - -	958	18th April 1861	Mary Buchanan.
An improved process for manufacturing india-rubber pipes.	981	20th April 1861	Jean Baptiste Jules Noirot.
Manufacture of cartridges - - - - -	992	22nd April 1861	Thomas Parry Hawker.
Springs - - - - - - -	1014	24th April 1861	Alfred Leighton.
An improved pen holder - - - -	1065	27th April 1861	George G. Ray.
Gutta-percha and india-rubber toys - - (*Communicated by Henry Galante.*)	1146	7th May 1861	Charles Stevens.
Construction of carriage wheels - - -	1294	21st May 1861	Youngs Parfrey.
Manufacture of boots, shoes and other coverings for the feet made of india-rubber, gutta-percha and like substances.	1335	28th May 1861	Egbert Reuben Burnham.
Manufacture of kamptulican - - -	1387	3rd June 1861	William Richard Jeune.
Improvements in the manufacture of insulators for telegraphic wires, and in materials and machinery for coating telegraphic wires.	1406	4th June 1861	Heinrich Gottlieb Bernhard Roeber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &C.—*continued.*			
Manufacture of elastic web	1429	6th June 1861	Henry Turner. Thomas Yates.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
An improved impermeable varnish for leather (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
An improvement or improvements in the manufacture of cements or adhesive solutions for joining or connecting together surfaces or articles of leather, wood, paper or other similar materials.	1566	18th June 1861	Murdoch McKay.
An improvement in the manufacture of gloves	1583	20th June 1861	Louis Hannart.
Manufacture of waterproof felt	1651	28th June 1861	Alfred Ford.
Treating materials for the manufacture of banners and flags.	1728	6th July 1861	George Tutill.
Perforated materials in combination with india-rubber.	1736	9th July 1861	George Seaborn Parkinson.
Mode of insulating and covering wire	1806	18th July 1861	Charles West.
Improved apparatus to be used for brushing and dressing cloth	1812	18th July 1861	George Coles. James Archibald Jaques. John Americus Fanshawe.
An improved apparatus for or mode of stopping, plugging or closing inkstands, bottles and other vessels of capacity	1813	18th July 1861	James Archibald Jaques. John Americus Fanshawe.
An improved apparatus for stopping and packing bottles.	1815	19th July 1861	Robert Walker.
Certain improvements in the construction, armament and equipment of batteries floating or otherwise, for war purposes.	1873	26th July 1861	John Frederick Bourne.
Means or apparatus employed in weaving	1931	3rd Aug. 1861	John Anderson. James Broadley.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones, and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
An improvement in the construction of tennis and racket bats.	2035	15th Aug. 1861	John Thomas Hutchings.
Apparatus for administering injection in a continuous stream, also applicable as an eye douche and other purposes.	2123	26th Aug. 1861	George Nye.
Improvements in the construction of casters	2219	5th Sept. 1861	Charles Weightman Harrison.
Certain improvements in power looms for weaving	2231	6th Sept. 1861	John Brown.
Manufacture of collars and wristbands	2263	12th Sept. 1861	John Albert Dauncey.
Pens and penholders	2379	24th Sept. 1861	William Edward Wiley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.
Batteries for the purposes of war - - -	2514	9th Oct. 1861	Robert William Sievier.
An improved chase for printing-presses - -	2565	15th Oct. 1861	Corneille Wynants.
An improvement or improvements in the manufacture of certain descriptions of brace webs known as india-rubber webs.	2602	18th Oct. 1861	Benjamin Taylor.
Improved moulded india-rubber boots, shoes and other like articles. (*Communicated by Germain Burnet.*)	2737	1st Nov. 1861	David Lang.
Manufacture of elastic fabrics - - -	2779	5th Nov. 1861	Edward Bowra.
Portable and other filters - - - - (*Communicated by Jules Pacôme, Alfred Havard, and Jean Baptiste Bourgoise.*)	2824	9th Nov. 1861	William Clark.
Pens and writing instruments - - -	2828	11th Nov. 1861	George Leslie.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
Wringing machines - - - - (*Communicated by Francis Adams Cushman.*)	3010	29th Nov. 1861	Augustus Bryant Child
Manufacture of umbrellas and parasols - -	3016	29th Nov. 1861	Richard Cook. and George Holme Spence
Artificial teeth - - - - - (*Communicated by Samuel Stockton White.*)	3034	3rd Dec. 1861	William Edward Newton
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Caoutchouc varnish.*) (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine Francois Mennons.
Shoes for horses and other quadrupeds - - (*Made of vulcanite.*)	3085	9th Dec. 1861	Stephen William Silver and Hall Pringle.
Manufacture of beds or palates for the reception of artificial teeth.	3169	18th Dec. 1861	Matthew Cartwright.
A new or improved method of preparing silk fabrics to be employed in the manufacture of hats, caps and bonnets. (*Communicated by Louis Bayard.*)	3198	20th Dec. 1861	Richard Archibald Berman.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*India-rubber spring.*) (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson Bousfield.
Improvements in the manufacture and application of elastic or yielding surfaces for sitting, lying or reclining upon.	3213	21st Dec. 1861	Charles Osman.
An improved composition or improved compositions suitable for painting, varnishing and coating -	3247	27th Dec. 1861	Jean Joseph Hector Fajole. and Pascal Achille Agostini

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HAMMERS, MALLETS, ADZES, CHISELS, SPADES AND PICKS.			
An improved construction of forging press or hammer. (*Communicated by John Haswell.*)	25	4th Jan. 1861	Andrew Fairbairn.
Manufacture of spades, shovels and other articles of a similar nature.	727	22nd March 1861	Samuel Jackson.
Machinery for fulling felt hats and other felted goods. (*Hollowing the mallets.*)	780	30th March 1861	Guiseppe Mateo Coppo.
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile-driving and other such like machines and purposes.	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Steam hammers - - - - - -	1601	21st June 1861	William Hobson.
Machinery for manufacturing shoes for horses and other animals. (*Communicated by Edward Adams Cutler.*)	2360	20th Sept. 1861	George Tomlinson Bousfield.
Improvements in hammers to be worked by steam or other elastic fluid, and in anvils for the same.	2519	9th Oct. 1861	John Norman.
Steam hammers - - - - - -	2611	19th Oct. 1861	Thomas Fearnley.
Certain improvements in steam hammers and in valves applicable to the same and to other steam-engines.	2772	5th Nov. 1861	Robert Wilson.
Manufacture of hoes, adzes or other similar articles	2816	9th Nov. 1861	Sam Hague.
Apparatus and machinery for working coal and other mines - - - - - - - - -	2975	26th Nov. 1861	William Firth. Robert Ridley.
Machinery and apparatus for working coal and other mines - - - - - - -	2977	26th Nov. 1861	George Edmund Donisthorpe. William Firth. Robert Ridley.
Improvements in apparatus for the manufacture of cast steel mill chisels and other taper tools and files.	3186	20th Dec. 1861	William Makin.
HARNESS, SADDLES, BITS, STIRRUPS AND WHIPS; DUMB JOCKEYS AND NUMNAHS; HARNESSING; CURRYING HORSES.			
An improved apparatus for stopping run-away horses. (*Communicated by Louis Marquee.*)	13	3rd Jan. 1861	Charles Stevens.
An improved "dumb jockey" for breaking or training horses.	173	22nd Jan. 1861	Robert Henderson.
An improved elastic horse collar - - - (*Communicated by Amedée Beaujouan.*)	458	23rd Feb. 1861	Charles Stevens.
Accoutrements of horse soldiers' and other saddles -	517	28th Feb. 1861	Thomas Newton.
An improved buckle plate or apparatus used for attaching and detaching horses when in harness, or for other purposes to which the same may be applicable.	605	12th March 1861	James Tomlinson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING AND CRUSHING CORN, GRAIN, SEEDS, &c.; DRESSING FLOUR; MILL-STONES.			
Machinery or apparatus for pulverizing clay and other materials. (*Grain, &c.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Dressing or preparing the surface of mill stones - (*Communicated by Louis Wells Broadwell.*)	763	27th March 1861	William Spence.
Machinery or apparatus for grinding wheat and other grain.	806	1st April 1861	William Palmer.
Machinery for agricultural purposes - -	818	3rd April 1861	Thomas Edward Wilson.
An improved construction of bran duster - - (*Communicated by George Clark, Peter Elting, George Marsh and Alfred Marsh.*)	832	4th April 1861	Alfred Vincent Newton.
Machinery for dressing and cutting stone - - (*Millstones.*) (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Mills for grinding corn and other grain - - (*Communicated by Joseph Perrigault.*)	980	20th April 1861	Richard Archibald Brooman.
Constructing the framing of various kinds of agricultural implements. (*Corn crushers, &c.*)	1009	23rd April 1861	Edward Hammond Bentall.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
Mills - - - - - - (*Communicated by Jean Ellie.*)	1247	16th May 1861	Charles Stevens.
An improved crushing and pulverising machine - (*For corn, maize, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
An improved coffee-mill - - - -	1513	12th June 1861	Jean Pierre Girard.
Mills for the manufacture of barley and rice -	1562	18th June 1861	Andrew White Gibson.
Apparatus for grinding corn and other matters - (*Communicated by Charles Placide Nézeraux.*)	1690	3rd July 1861	George Davies.
An improvement in mills for grinding - -	2051	17th Aug. 1861	Pleasant Hart.
Means to be employed in the dressing or cracking of mill stones. (*Communicated by David Monroe Childs.*)	2107	23rd Aug. 1861	Augustus Bryant Childs.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
An improved machine for purifying and peeling corn.	2274	13th Sept. 1861	William Henry Delamare.
Apparatus for dressing flour - - -	2403	26th Sept. 1861	George Caldwell. John Young.
An improved machine for mixing, mincing and pounding.	2493	5th Oct. 1861	James Turner.
Improved machinery for dressing or cleaning wheat and other grain. (*Preparatory to grinding.*) (*Communicated by Samuel Bentz.*)	2555	12th Oct. 1861	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING CORN, &c.—*continued.*			
Machine to decorticate corn and seeds - - (*See* "THRASHING.")	2582	17th Oct. 1861	Louis Alexandre Joseph Deplanque.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For grinding corn.*)	2599	18th Oct. 1861	William Streather.
Machinery or apparatus for preparing grain for brewers. (*Crushing, &c.*)	2710	29th Oct. 1861	Richard Gibbon.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
An improved arrangement of driving gear - -	3042	4th Dec. 1861	Robert Kennedy. James Armstrong.
Improvements in thrashing-machines and in mills for grinding and in apparatus for raising or moving grain in granaries and other places -	3188	20th Dec. 1861	John Smith, junior. John Birch Higgs.
GRINDING AND CRUSHING MINERALS, CLAY, FIBROUS PLANTS, &c.; BREAKING STONE.			
Machinery or apparatus for pulverizing clay and other materials. (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Mechanism or apparatus for crushing or breaking up ores, stones and other hard substances -	236	29th Jan. 1861	William Smyth. Matthew Wasley.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Machines for breaking, crushing and reducing stones and other substances.	905	13th April 1861	James Eglington Anderson Gwynne.
Machinery or apparatus for breaking stones and other hard materials.	1209	13th May 1861	John Bermingham.
An improved crushing and pulverizing machine - (*For stones, ores, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Machinery or apparatus for manufacturing snuff -	1560	18th June 1861	William Fleming.
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres.	1894	29th July 1861	Edmond Hamborough Joynson.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For grinding clay.*)	2599	18th Oct. 1861	William Streather.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING MINERALS, &c.— *continued.*			
The use of hydraulic power for the breaking, crushing or pulverizing of quartz, blue stone or other stone or mineral of any description, and the use of a wrought iron lever or jaw in machines for crushing quartz or any other mineral, and the use of steel teeth and steel shield pieces for the levers or jaws in such machines.	2669	25th Oct. 1861	Enoch Chambers.
Machinery for breaking and crushing limestone and other hard substances.	2706	29th Oct. 1861	John Bibbington.
Machines for crushing and pounding stones, ore and other materials.	2981	27th Nov. 1861	François Frédérick Dumarchey.
GRINDING AND SHARPENING; FLAT GRINDING AND POLISHING; GRINDING SURFACES, EMERY, COMPOSITION FOR POLISHING.			
Machinery for grinding rollers and cylinders covered with card teeth.	15	3rd Jan. 1861	William Heywood.
Improvements in the ornamenting of glass - -	208	26th Jan. 1861	Charles Bishop.
An improved instrument for sharpening slate pencils, black lead pencils, lead pencils, crayons and such like articles.	545	4th March 1861	John James.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same. (*Stone for rubbers or grinding-surfaces.*)	877	9th April 1861	Frederick Ransome.
New or improved machinery for grinding and polishing swords, matchetts and knives, which said machinery may also be employed for grinding gun barrels and files and for other like purposes.	921	15th April 1861	Edgar Brooks.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Sharpening teeth of serrated discs.*)	1204	11th May 1861	William Henry Tooth.
Improvements in machinery for grinding the cards of carding-engines and in machinery for making the same.	1306	23rd May 1861	Charles Nuttall.
Manufacture of a material or composition for cleaning and polishing metals and glass. (*Communicated by Mr. Alexandre Cochet.*)	1468	8th June 1861	William Clark.
An improved crushing and pulverising machine - (*For emery.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Improvements in the pointing of steel or other wire for teeth of cards, and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING, SHARPENING, &c.—*continued.*			
New or improved machinery to be used in the manufacture of tin plates and terne plates and iron plates coated with lead - - - - (*Polishing.*)	1868	25th July 1861	Robert Kelly. John Shakespeare.
Improvements in the construction of machines for mincing meat and other substances. (*Sharpening the knives.*)	1953	6th Aug. 1861	Joseph MacMorran.
Manufacture or production of plate glass - - (*Rubbing or flattening.*)	2911	20th Nov. 1861	George Gwilliam.
Machinery or apparatus for polishing shoe heels, toe plates and other articles.	2934	22nd Nov. 1861	George James Farmer.
Hermetically stopping or covering jars, pots, vases and other like articles - - - -	3027	3rd Dec. 1861	André Marie Augustin Pichery. Pierre Louis Danais.
GUNPOWDER AND EXPLOSIVE COMPOUNDS; POWDER FLASKS.			
An improved method of igniting or firing gunpowder, gun cotton and other like explosive compounds in large and small fire-arms and ordnance, applicable also to the firing of explosive com pounds generally.	562	5th March 1861	Charles Hanson.
Making up or packing charges or small quantities of gunpowder, drugs or other articles.	752	25th March 1861	Thomas Bentley.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For powder flasks.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of gunpowder - - - -	1831	20th July 1861	Thomas Roberts. John Dale.
Powder flasks - - - - - -	1980	9th Aug. 1861	George Haycraft.
Improvements in the manufacture of metallic boxes and in machinery employed therein. (*For containing gunpowder.*)	2132	27th Aug. 1861	Emile Peltier.
A certain compound or certain compounds to be used as a substitute for gunpowder - -	2233	6th Sept. 1861	Edward Harrison. Thomas Shuttleworth Yates.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Producing an explosive compound.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Gunpowder suitable for blasting - - -	2679	25th Oct. 1861	James Lobb.
Improvements in the mechanism required for and in the manufacture and composition of gunpowder.	3206	21st Dec. 1861	William Bennetts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA AND INDIA-RUBBER. (*Preparing, Treating, Vulcanizing.*)			
Preparation of non-conducting substances for the deposition thereon of metals by electric action. (*As gutta-percha.*)	145	19th Jan. 1861	Bernard Piffard.
Improvements in treating gutta-percha, india-rubber and compounds containing one or both of those substances, and in machinery and apparatus employed therein.	263	31st Jan. 1861	John Chatterton.
Masticators or machines employed in the mastication of gutta-percha, india-rubber and other similar substances.	446	22nd Feb. 1861	Edwin Thomas Truman.
Machinery suitable for cutting india-rubber fillets -	467	23rd Feb. 1861	John Macmillan Dunlop.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Masticators or apparatuses for preparing gutta-percha, caoutchouc and other similar substances.	637	14th March 1861	Edwin Thomas Truman.
Preparing caoutchouc adapted especially to dental purposes. (*Communicated by Corneille Lambert Charles Cassimir Gobert.*)	697	20th March 1861	Richard Archibald Brooman.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
An improvement in the manufacture of gutta-percha	1114	3rd May 1861	Peter Augustin Godefroy.
Manufacture of gutta-percha and compounds thereof with other matters and substances.	1166	8th May 1861	John Rolfe Hunt.
An improvement in the treatment of india-rubber -	1192	10th May 1861	Peter Augustin Godefroy.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Reducing waste india-rubber.*)	1204	11th May 1861	William Henry Tooth.
Treatment of fatty and oily matters - - (*Obtaining artificial caoutchouc.*)	1410	4th June 1861	Heinrich Ludwig Buff.
Compounds of india-rubber and gutta-percha with other substances.	1580	19th June 1861	John Fisher Williams.
Machinery for splitting, dividing or shaving leather or skins or sheets of manufactured fabrics. (*Or india-rubber, gutta-percha, &c.*)	1906	31st July 1861	Joseph Follansbee Flanders.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Certain improvements in the manufacture and treatment of india-rubber and vulcanite as applied to various purposes - - -	2515	9th Oct. 1861	Isham Baggs. James Thomas Parkes.
Reworking waste vulcanised india-rubber - -	2574	16th Oct. 1861	Thomas Forster.
Preparing and treating gutta-percha and india-rubber.	2800	7th Nov. 1861	William Albert Shepard.
GUTTA-PERCHA AND INDIA-RUBBER AS APPLIED IN VARIOUS MANUFACTURES.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Pouches or receptacles for tobacco and other articles	104	14th Jan. 1861	James Horsey.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials. (*Vulcanite rollers.*)	189	24th Jan. 1861	Henry Henderson.
Tobacco pouches, purses and other such like receptacles - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
Railway carriage wheels - - - - (*Communicated by Ebenezer A. Lester.*)	226	28th Jan. 1861	William Edward Newton.
Construction of cables for telegraphic purposes -	260	31st Jan. 1861	Stephen Moulton.
Valves - - - - - - -	323	8th Feb. 1861	William Morris, junior.
Manufacture of bodies for caps, hats, bonnets, baskets, bags and reticules, and other similar articles of light work.	325	9th Feb. 1861	Hermann Freystadt.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes or bodies.	334	9th Feb. 1861	Josiah George Jennings.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles.	397	18th Feb. 1861	Robert Offord, junior.
Preparing warps for the manufacture of elastic fabrics. (*Preparing india-rubber strands.*)	414	19th Feb. 1861	Archibald Turner.
Apparatus for feeding infants and invalids -	439	22nd Feb. 1861	Benoit Lang.
Manufacture of pouches of india-rubber and india-rubber fabrics.	447	22nd Feb. 1861	Manuel Leopold Jonas Lavater.
An improved elastic horse collar - - - (*Communicated by Amedée Beaujouan.*)	458	23rd Feb. 1861	Charles Stevens.
Coating or covering metallic springs or bands for crinolines and other articles of dress.	461	23rd Feb. 1861	John William Wyatt.
Apparatus for suspending electric telegraph wires -	466	23rd Feb. 1861	William O'Shaughnessy Brooke.
Treating woollen and union cloths for surface finish	560	5th March 1861	Robert Brearley, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &C.—*continued.*			
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Telegraphic cables - - - - -	579	7th March 1861	Thomas William Evans, M.D.
Improvements in the manufacture of boots, shoes and other coverings for the feet, and in tools for cutting the soles of such articles.	602	11th March 1861	John Thomas Hutchings.
India-rubber springs for railway and other uses -	613	13th March 1861	George Spencer.
Sheathing iron ships or vessels - - -	620	13th March 1861	George Frederick Muntz.
An invention relating to heads for lead pencils, ink erasers and other articles of like character. (*Communicated by Francis Pickard Hale, junior.*)	703	20th March 1861	Levi Lincoln Tower.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Manufacture of rubbers for the human teeth and gums.	788	30th March 1861	William Donald Napier.
Manufacture and insulation of telegraph cables and telegraphic wires in general, and of apparatus for laying marine telegraph cables.	800	1st April 1861	Richard Searle.
Improvements in carriage and other axles, and also in shafts and other parts of machinery exposed to the action of the atmosphere.	838	5th April 1861	William Richardson.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.
An improvement in or addition to certain kinds of breech-loading fire-arms and ordnance.	908	13th April 1861	Joseph Rock Cooper.
Gloves - - - - - -	958	18th April 1861	Mary Buchanan.
An improved process for manufacturing india-rubber pipes.	981	20th April 1861	Jean Baptiste Jules Noirot.
Manufacture of cartridges - - - -	992	22nd April 1861	Thomas Parry Hawker.
Springs - - - - - -	1014	24th April 1861	Alfred Leighton.
An improved pen holder - - - -	1065	27th April 1861	George G. Ray.
Gutta-percha and india-rubber toys - - (*Communicated by Henry Galante.*)	1146	7th May 1861	Charles Stevens.
Construction of carriage wheels - - -	1294	21st May 1861	Youngs Parfrey.
Manufacture of boots, shoes and other coverings for the feet made of india-rubber, gutta-percha and like substances.	1335	28th May 1861	Egbert Reuben Burnham.
Manufacture of kamptulican - - -	1387	3rd June 1861	William Richard Jeune.
Improvements in the manufacture of insulators for telegraphic wires, and in materials and machinery for coating telegraphic wires.	1406	4th June 1861	Heinrich Gottlieb Bernhard Roeber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Manufacture of elastic web	1429	6th June 1861	Henry Turner. Thomas Yates.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
An improved impermeable varnish for leather (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
An improvement or improvements in the manufacture of cements or adhesive solutions for joining or connecting together surfaces or articles of leather, wood, paper or other similar materials.	1566	18th June 1861	Murdoch McKay.
An improvement in the manufacture of gloves	1583	20th June 1861	Louis Hannart.
Manufacture of waterproof felt	1651	28th June 1861	Alfred Ford.
Treating materials for the manufacture of banners and flags.	1728	6th July 1861	George Tutill.
Perforated materials in combination with india-rubber.	1736	9th July 1861	George Seaborn Parkinson.
Mode of insulating and covering wire	1806	18th July 1861	Charles West.
Improved apparatus to be used for brushing and dressing cloth	1812	18th July 1861	George Coles. James Archibald Jaques. John Americus Fanshawe.
An improved apparatus for or mode of stopping, plugging or closing inkstands, bottles and other vessels of capacity	1813	18th July 1861	James Archibald Jaques. John Americus Fanshawe.
An improved apparatus for stopping and packing bottles.	1815	19th July 1861	Robert Walker.
Certain improvements in the construction, armament and equipment of batteries floating or otherwise, for war purposes.	1873	26th July 1861	John Frederick Bourne.
Means or apparatus employed in weaving	1931	3rd Aug. 1861	John Anderson. James Broadley.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones, and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
An improvement in the construction of tennis and racket bats.	2035	15th Aug. 1861	John Thomas Hutchings.
Apparatus for administering injection in a continuous stream, also applicable as an eye douche and other purposes.	2123	26th Aug. 1861	George Nye.
Improvements in the construction of casters	2219	5th Sept. 1861	Charles Weightman Harrison.
Certain improvements in power looms for weaving	2231	6th Sept. 1861	John Brown.
Manufacture of collars and wristbands	2263	12th Sept. 1861	John Albert Dauncey.
Pens and penholders	2379	24th Sept. 1861	William Edward Wiley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.
Batteries for the purposes of war - - -	2514	9th Oct. 1861	Robert William Sievier.
An improved chase for printing-presses - -	2565	15th Oct. 1861	Corneille Wynants.
An improvement or improvements in the manufacture of certain descriptions of brace webs known as india-rubber webs.	2602	18th Oct. 1861	Benjamin Taylor.
Improved moulded india-rubber boots, shoes and other like articles. (*Communicated by Germain Burnet.*)	2737	1st Nov. 1861	David Lang.
Manufacture of elastic fabrics - - -	2779	5th Nov. 1861	Edward Bowra.
Portable and other filters - - - - (*Communicated by Jules Pacôme, Alfred Havard, and Jean Baptiste Bourgoise.*)	2824	9th Nov. 1861	William Clark.
Pens and writing instruments - - -	2828	11th Nov. 1861	George Leslie.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
Wringing machines - - - - (*Communicated by Francis Adams Cushman.*)	3010	29th Nov. 1861	Augustus Bryant Childs.
Manufacture of umbrellas and parasols - -	3016	29th Nov. 1861	Richard Cook. and George Holme Spencer.
Artificial teeth - - - - - (*Communicated by Samuel Stockton White.*)	3034	3rd Dec. 1861	William Edward Newton.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Caoutchouc varnish.*) (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
Shoes for horses and other quadrupeds - - (*Made of vulcanite.*)	3085	9th Dec. 1861	Stephen William Silver. and Hall Pringle.
Manufacture of beds or palates for the reception of artificial teeth.	3169	18th Dec. 1861	Matthew Cartwright.
A new or improved method of preparing silk fabrics to be employed in the manufacture of hats, caps and bonnets. (*Communicated by Louis Bayard.*)	3198	20th Dec. 1861	Richard Archibald Brooman.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*India-rubber spring.*) (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson Bousfield.
Improvements in the manufacture and application of elastic or yielding surfaces for sitting, lying or reclining upon.	3213	21st Dec. 1861	Charles Osman.
An improved composition or improved compositions suitable for painting, varnishing and coating -	3247	27th Dec. 1861	Jean Joseph Hector Fajole. and Pascal Achille Agostini.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HAMMERS, MALLETS, ADZES, CHISELS, SPADES AND PICKS.			
An improved construction of forging press or hammer. (*Communicated by John Haswell.*)	25	4th Jan. 1861	Andrew Fairbairn.
Manufacture of spades, shovels and other articles of a similar nature.	727	22nd March 1861	Samuel Jackson.
Machinery for fulling felt hats and other felted goods. (*Hollowing the mallets.*)	780	30th March 1861	Guiseppe Mateo Coppo.
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile-driving and other such like machines and purposes.	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Steam hammers - - - - - -	1601	21st June 1861	William Hobson.
Machinery for manufacturing shoes for horses and other animals. (*Communicated by Edward Adams Cutler.*)	2360	20th Sept. 1861	George Tomlinson Bousfield.
Improvements in hammers to be worked by steam or other elastic fluid, and in anvils for the same.	2519	9th Oct. 1861	John Norman.
Steam hammers - - - - - -	2611	19th Oct. 1861	Thomas Fearnley.
Certain improvements in steam hammers and in valves applicable to the same and to other steam-engines.	2772	5th Nov. 1861	Robert Wilson.
Manufacture of hoes, adzes or other similar articles	2816	9th Nov. 1861	Sam Hague.
Apparatus and machinery for working coal and other mines - - - - - - - - -	2975	26th Nov. 1861	William Firth. Robert Ridley.
Machinery and apparatus for working coal and other mines - - - - - -	2977	26th Nov. 1861	George Edmund Donisthorpe. William Firth. Robert Ridley.
Improvements in apparatus for the manufacture of cast steel mill chisels and other taper tools and files.	3186	20th Dec. 1861	William Makin.
HARNESS, SADDLES, BITS, STIRRUPS AND WHIPS; DUMB JOCKEYS AND NUMNAHS; HARNESSING; CURRYING HORSES.			
An improved apparatus for stopping run-away horses. (*Communicated by Louis Marquee.*)	13	3rd Jan. 1861	Charles Stevens.
An improved "dumb jockey" for breaking or training horses.	173	22nd Jan. 1861	Robert Henderson.
An improved elastic horse collar - - - (*Communicated by Amedée Beaujouan.*)	458	23rd Feb. 1861	Charles Stevens.
Accoutrements of horse soldiers' and other saddles -	517	28th Feb. 1861	Thomas Newton.
An improved buckle plate or apparatus used for attaching and detaching horses when in harness, or for other purposes to which the same may be applicable.	605	12th March 1861	James Tomlinson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HARNESS, &c.—*continued.*			
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For harness.*)	869	9th April 1861	Charles Gill.
An improved nose-bag for horses - - - (*Communicated by Rose Marie Victoire Celestine Carbonino Veuve de Favre.*)	1018	24th April 1861	Emile Lecot.
A so called hypocampaphile or elastic apparatus whereby the legs of running horses are protected from accidents.	1073	29th April 1861	Jean Baptiste Hubert Desplas.
Saddle-trees - - - - - -	1075	29th April 1861	William Johnson.
Improved means or apparatus for releasing horses from vehicles and for locking the wheels thereof in prevention of accident.	1102	2nd May 1861	Laurent Glatard.
Covering or partially covering the sticks and handles of whips and parasols as also various other articles with flock and producing ornamental effects thereon.	1157	8th May 1861	Joseph Pickett.
Collars for horses - - - - - -	1203	11th May 1861	Humphrey Swindells.
An improved manufacture of glove for currying horses and other cattle.	1451	7th June 1861	Richard Lockington Cole.
An improved noseband for stopping run-away horses. (*Communicated by Louis Marque.*)	1624	25th June 1861	Charles Stevens.
Riding-stirrups - - - - - -	1660	29th June 1861	Robert Nelson Eagle.
Clasps or fastenings for garments, belts, harness and like articles.	2177	31st Aug. 1861	John Jones.
Construction of saddles - - - - (*Communicated by Mr. Louis Friese.*)	2244	7th Sept. 1861	George Henry Birkbeck.
An improved apparatus for the prevention of accidents to vehicles drawn by affrighted horses.	2272	13th Sept. 1861	William Davis.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed. (*Handles for whips.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Reins or apparatus for preventing harnessed horses from falling.	2539	10th Oct. 1861	Abraham English.
Preparation or treatment of skins and hides - (*For manufacture of harness.*) (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.
Apparatus for attaching horses to carriages -	2771	4th Nov. 1861	John Ashley.
Manufacture of saddle cloths known as numnahs -	2889	16th Nov. 1861	William Naish.
Certain improvements in bits for riding and driving	2891	18th Nov. 1861	John Hawkins.
An improvement or improvements in attaching name plates or labels to umbrellas, parasols, walking sticks and whips.	3001	28th Nov. 1861	Samuel Alfred Carpenter.
Improvements in the manufacture of nose bags and similar articles, and in apparatus connected with such manufacture. (*Communicated by Felix Loignon and Victor Casse.*)	3035	4th Dec. 1861	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HARNESS, &c.—*continued.*			
An improved bridle	3113	12th Dec. 1861	William Lightfoot.
Improvements in saddles (*Communicated by John Bloodgood Peck and Thomas Bloodgood Peck.*)	3274	31st Dec. 1861	Edward Thomas Hughes.
HATS, CAPS, BONNETS, LADIES' CAPS, CAP-FRONTS, ROUCHES; COVERINGS FOR THE HEAD.			
Circular looms for weaving hats and other articles (*Communicated by Mr. Louis Bonard.*)	182	23rd Jan. 1861	William Clark.
Manufacture of hats	185	23rd Jan. 1861	William Wilson.
Manufacture of bodies for caps, hats, bonnets, baskets, bags and reticules, and other similar articles of light work.	325	9th Feb. 1861	Hermann Freystadt.
Hats or coverings for the head	498	26th Feb. 1861	Louis Sideman. Samuel Phillips.
Manufacture of hats, bonnets, waistcoats and trimmings for wearing-apparel.	648	15th March 1861	Arthur Granger.
Machinery for fulling felt hats and other felted goods.	780	30th March 1861	Guiseppe Mateo Coppo.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For cap peaks, bonnet shapes, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of hats	1025	24th April 1861	William Wilson.
Covering or partially covering the sticks and handles of whips and parasols as also various other articles with flock and producing ornamental effects thereon. (*Bonnets and caps.*)	1157	8th May 1861	Joseph Pickett.
Holders and cases for holding bonnet fronts, rouches, frills and other fancy articles.	1251	16th May 1861	George Knight.
Manufacture of waterproof felt (*For caps and hats.*)	1651	28th June 1861	Alfred Ford.
Manufacture of hats	1675	2nd July 1861	William Barber.
Improvements in heating cylinder irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated irons are ordinarily used, and in apparatus connected therewith	1801	17th July 1861	Sir John Hare, *Knight.* Barnabas Russ.
Machinery or apparatus for shearing military hat tufts and other similar articles.	2089	21st Aug. 1861	Joseph Marie Murat.
Improvements in machinery or in apparatus connected therewith in the manufacture of bonnet and cap fronts, rouches and millinery or other trimmings.	2462	2nd Oct. 1861	Charles Grey Hill.
Hats and caps	2548	12th Oct. 1861	Samuel Ratcliffe Carrington.
Hats, caps and other such coverings for the head	2693	26th Oct. 1861	George Hutton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HATS, &c.—*continued.*			
Manufacture of collars, shirt fronts, cuffs, hats, bonnets, vests and other articles of wearing-apparel.	2923	21st Nov. 1861	James Harrow Jeffs.
A new or improved method of preparing silk fabrics to be employed in the manufacture of hats, caps and bonnets. (*Communicated by Louis Bayard.*)	3198	20th Dec. 1861	Richard Archibald Brooman.
HEATING AND EVAPORATING; REGULATING HEAT.			
An improved warming hassock or footstool - -	38	5th Jan. 1861	John Roberts.
A combined heating and ventilating pipe to be made elliptically or otherwise.	53	9th Jan. 1861	William Taylor.
Traction engines - - - - - - (*Super-heating steam.*)	79	11th Jan. 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Generating heat for locomotive, marine and other boilers and furnaces.	92	12th Jan. 1861	The Honourable William Edward Fitz-Maurice.
Improvements in screw propellers and in machinery or apparatus for actuating the same. (*Superheating steam.*)	114	15th Jan. 1861	Robert Wilson.
Piling iron for heating preparatory to re-rolling or hammering the same.	204	25th Jan. 1861	Bernard Lauth.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Construction of boilers employed for warming buildings.	243	30th Jan. 1861	Samuel Thomas Crook.
Furnaces for treating iron ores - - -	262	31st Jan. 1861	Isaac Rogers.
Improvements in umbrella and parasol furniture, and in the means or apparatus employed in treating umbrella and parasol furniture, parts of which are also applicable in heating steel wire ribs, rods or tubes for other purposes - -	277	2nd Feb. 1861	George Holme Spencer. Richard George Cook.
Improvements in the heating and cooling surfaces of engines propelled by aëriform fluids. (*Communicated by Auguste Casimir Lehot.*)	338	11th Feb. 1861	Marc Antoine François Mennons.
Construction of steam generators employed for heating, drying, evaporating, and other purposes. (*Communicated by Julien Fradet.*)	339	11th Feb. 1861	Marc Antoine François Mennons.
A new process for impregnating the atmosphere with perfuming or purifying vapours. (*Vaporisation of perfumes.*)	378	14th Feb. 1861	Eugene Rimmel.
Manufacture of manure - - - - -	424	20th Feb. 1861	Thomas Richardson.
Heating-apparatus - - - - - -	487	25th Feb. 1861	James Young.
Forges - - - - - - (*Heating the blast.*) (*Communicated by Martin Chretiennot, commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	499	26th Feb. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Wcallens.
Improved modes of heating the feed water of steam-boilers.	515	28th Feb. 1861	Robert Whittam.
Apparatus applicable for boiling, cooling and fermenting malt liquors, part of which may be applied to other purposes - - - - -	534	2nd March 1861	Thomas Haigh. Robert Adam Robertson.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.
Manufacture of glass - - - - -	554	5th March 1861	Tony Petitjean.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
Apparatus for obtaining fresh water from salt water	617	13th March 1861	Douglas Hebson. William Grandage Ramsden.
Improvements in the manufacture of gas and in the apparatus employed therein - - (*Gas for heating hollow rollers.*)	652	15th March 1861	Frederick Trachsel. Thomas Clayton.
Presses for pressing or finishing textile fabrics -	665	16th March 1861	Adolphe Drevelle.
Furnaces in which combustion is carried on for obtaining gases or gaseous products to be usefully applied. (*For heating.*) (*Communicated by Edouard Alphonse Jardin and Alfred Charles Marie Celestin Edgard Goussard.*)	681	18th March 1861	Michael Henry.
An improved apparatus for heating Turkish baths, public and private buildings, vineries, hot houses and cooking ovens.	689	19th March 1861	John Adams Bolton.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials. (*Heating rollers.*)	764	27th March 1861	Weston Grimshaw.
Machinery for fulling felt hats and other felted goods.	780	30th March 1861	Guiseppe Mateo Coppo.
Apparatus for evaporating in vacuo - -	781	30th March 1861	James John Field.
Improvements in steam-engines and boilers and in apparatus connected therewith. (*Heating feed water.*)	786	30th March 1861	John Cass.
Means or apparatus for obtaining superheated or surcharged steam, and for increasing the draft through the flues of locomotive and other boilers. (*Communicated by James Martin.*)	807	1st April 1861	William Brookes.
Combustion of fuel for generating steam and for other purposes.	870	9th April 1861	William Henry Phillips.
Improvements in steam-engines and in boilers for the same. (*Superheating steam.*)	890	11th April 1861	William Bury.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.

Subject-matter of Patent	Number of Patent.	Date.	Name of Patentee.
HEATING, &C.—*continued.*			
Heating-apparatus for domestic and other purposes	964	19th April 1861	Isaac Riley. Thomas Carns Wolstenholme.
Steam generators and superheaters	966	19th April 1861	John Ridley.
Steam-engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
Machinery for the manufacture of paper (*Heating rollers.*)	1057	26th April 1861	Edmund Hamborough Joynson.
Steam-engines and apparatus connected therewith (*Feed water heater.*)	1064	27th April 1861	Thomas William Miller.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
Steam and water tight joints for fixing tubes in plates such as are used for surface condensers, distillers, refrigerators, vessels for heating feed water, or tubular boilers. (*Communicated by Horatio Allen.*)	1081	1st May 1861	William Horn.
Machinery or apparatus for the manufacture of sugar. (*Evaporation of saccharine fluids.*)	1095	2nd May 1861	John Charles Wilson.
A mode of promoting a more perfect combustion of fuel in furnaces and the manner of effecting the same. (*Heating air.*)	1133	6th May 1861	Joseph Capron Tiffany.
Boilers and furnaces (*For superheating steam.*)	1297	21st May 1861	Thomas Sykes. Benjamin Clifford Sykes, M.D. James William Crossley.
Mode of and apparatus for warming and ventilating rooms and buildings.	1314	24th May 1861	Charles Batty.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Heating.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Obtaining products from sea weeds (*Gas for heating.*)	1411	4th June 1861	Edward Charles Stanford.
Improvements for economising fuel in evaporating and concentrating chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith.	1462	8th June 1861	Joseph Roman.
Improvements applicable to steam-boilers, furnaces and flues. (*Increasing heat of feed water.*)	1529	14th June 1861	James Leeming.
Improvements in heating by means of lamps and in imparting heat to vessels and their contents, also applicable to cooking and to other purposes.	1559	18th June 1861	William Brown Taylor.
Improved apparatus for raising the temperature of air in order to warm churches, conservatories, houses and other buildings or places.	1631	26th June 1861	John Redfern.
Means or apparatus employed for feeding steam-boilers with hot water.	1679	2nd July 1861	Joshua Garside Wilson.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Steam-engines and the machinery and apparatus connected therewith.	1693	3rd July 1861	John Frederick Spencer.
Treating gas in its passage from blast furnaces to the furnaces, stoves, boilers or other heating apparatus where the gas is employed.	1741	9th July 1861	Charles Cochrane.
Apparatus for washing, cleansing, scouring, getting up, dyeing, boiling and steaming.	1755	11th July 1861	Henry Ashwell.
Locomotive engines and trains - - -	1757	12th July 1861	William Bridges Adams.
An improved mode of and apparatus for heating water or other fluids. (*Communicated by Jérôme Eugène Tourné.*)	1795	17th July 1861	Joseph Heape Butterworth.
An improved mode of and apparatus for heating air or for desiccating wet or moist substances. (*Communicated by Jérôme Eugène Tourné.*)	1796	17th July 1861	Joseph Heape Butterworth.
Improvements in heating cylinder-irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated-irons are ordinarily used, and in apparatus connected therewith - - -	1801	17th July 1861	Sir John Hare, *Knight.* Barnabas Russ.
Apparatus employed for fermenting purposes in brewing beer as also for storing beer, and for general purposes of fermentation.	1858	24th July 1861	Alfred Wood.
Glass furnaces - - - - -	1928	3rd Aug. 1861	Charles Schinz.
Apparatus for heating water intended for the supply of steam-boilers.	2050	17th Aug. 1861	Zerah Colburn.
Preparation, application and manufacture of peat - (*Vulcanising.*)	2058	19th Aug. 1861	William Henry Smith.
Construction of buildings whereby to utilize the waste heat passing up the chimneys. (*Communicated by Mr. Léon de Sanges.*)	2084	21st Aug. 1861	William Clark.
Apparatus for heating the feed water of steam-boilers, superheating steam, and surface condensation.	2108	23rd Aug. 1861	Samuel Elson.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.
A new and economical method of producing dynamic electricity, thereby obtaining useful chemical compounds. (*Or for heating.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Improvements in apparatus employed in connection with electric telegraphs, part of which improvements are also applicable to ascertain the heat in accessible places. (*Partly communicated by Werner Siemens.*)	2181	31st Aug. 1861	Charles William Siemens.
Preparing the ends of welded tubes previous to their being fixed in plates.	2230	6th Sept. 1861	John James Russell.
Steam-boilers and generators - - - (*Superheating steam.*)	2255	10th Sept. 1861	John Anthony.
Machinery and apparatus for manufacturing and refining cane juice and other saccharine substances. (*Evaporating.*)	2288	14th Sept. 1861	Richard Waller.
Improvements in the construction of and appliances to steam ships or other vessels - - (*Warming.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Veneering-presses - - - - - (*Heating the hollow bed.*)	2362	21st Sept. 1861	Charles Board.
An improved method of causing the water to circulate in steam-boilers.	2364	21st Sept. 1861	James Fenton.
Constructing and arranging warming-apparatus -	2391	25th Sept. 1861	Henry Purnell.
Mashing-attemporators - - - -	2435	30th Sept. 1861	Joseph Lush.
Hardening iron and steel, and a composition or substance to be employed therein.	2489	5th Oct. 1861	Ebenezer Partridge.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately.	2499	7th Oct. 1861	Alexander Chaplin.
An improved apparatus for heating the feed water of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2536	10th Oct. 1861	William Edward Newton.
Certain improvements in the method of and apparatus for heating the "feed water" for steam-boilers, and in employing steam produced by such means - - - -	2588	17th Oct. 1861	Thomas Wild. Thomas Hodson.
An improved mode of and apparatus for carburetting gases for the purpose of illumination.	2618	19th Oct. 1861	Frederick John Evans.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein.	2664	24th Oct. 1861	James Chesterman.
Apparatuses for generating, superheating and condensing steam - - - -	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Glass cases for the cultivation of plants and flowers	2740	1st Nov. 1861	Elizabeth Anne Maling.
Improvements in evaporating and in machinery employed therein.	2789	6th Nov. 1861	Frederick Hills Schröder.
Apparatus for heating and warming conservatories, greenhouses, ferneries, orchard houses or other buildings and rooms.	2796	7th Nov. 1861	Samuel Lepard.
Improvements in generating hydrogen gas for illuminating or other purposes, and in apparatus used therein.	2815	9th Nov. 1861	François Henry Marie Côme Damiens Chevalier Finis De Lacombe.
Apparatus for heating or boiling fluids for domestic or other purposes.	2866	14th Nov. 1861	Alfred Ormerod Lipsett.
Apparatus for heating and evaporating brine in the manufacture of salt.	2926	21st Nov. 1861	John Stubbs.
Improvements in collecting and utilizing smoke, gases and such like products of combustion, rendering the same available for heating steam-boilers and other purposes where heat is required, which improvements are also applicable to the desulphurization of coal in making coke.	2962	25th Nov. 1861	John Halford.
A mode of utilizing the waste heat of furnaces used in reburning animal charcoal. (*Heating boilers.*)	2964	25th Nov. 1861	Phineas Cowan.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes, and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Brooman.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes. (*Distribution of heat.*)	3118	12th Dec. 1861	Augustus Tonnar.
Improvements in the construction of boilers or generators for steam-engines and other uses, applicable also to evaporators, and in pumps used therewith or otherwise used, some of which improvements in pumps are applicable to pistons and piston rods generally.	3123	13th Dec. 1861	Stephen Barber Hewett.
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Forming dry steam.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
Blowers or apparatuses for superheating steam and other gases, and for projecting them combined with atmospheric air upon ignited combustible matter. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.
Improved apparatus for raising the temperature of air in order to warm churches, conservatories, houses and other buildings or places.	3197	20th Dec. 1861	John Redfern.
An improvement or improvements in treating coal and other bituminous minerals and peat in order to obtain solid and liquid hydro-carbons therefrom, and in apparatus to be used for that purpose. (*Gas for heating.*)	3208	21st Dec. 1861	William Mattieu Williams.
Improvements in apparatus applicable to the superheating of steam - - - -	3209	21st Dec. 1861	William Loader Allchin. William Allchin.
Certain improvements in urns or vessels for holding and supplying hot water, tea, coffee or other liquids, separately or conjointly, as also in the stands for the same - - -	3228	26th Dec. 1861	Thomas Simmons. Thomas Timmins.
HOISTS, CRANES, CAPSTANS, WINDLASSES; RAISING AND LOWERING HEAVY BODIES; RAISING FROM MINES; RAISING SUNKEN SHIPS.			
Improvements in capstans and winches for hoisting, which improvements are also applicable to the steering of ships.	128	16th Jan. 1861	John Telfer.
Improved apparatus for lifting and tilting casks or other receptacles containing liquids.	140	18th Jan. 1861	Edward Argent.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Hoists, &c.—*continued.*			
Shutting off the steam and operating upon the breaks of engines employed in lowering into and lifting from mines or pits.	203	25th Jan. 1861	Jesse Law.
Engines for the extraction of the produce of mines, and new arrangement of the ropes for suppressing all dead weight.	265	1st Feb. 1861	Théodore Lemielle.
Improvements in apparatus for providing against accidents in hoisting machinery, part of which improvements are applicable to railway carriage coupling links - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
Construction of windlasses and implements applicable to steam cultivation - - -	484	25th Feb. 1861	James Howard. Edward Tenney Bousfield.
India-rubber springs for railway and other uses - (*For lifting.*)	613	13th March 1861	George Spencer.
Capstans - - - - - - -	845	5th April 1861	Adam Steuart.
Machinery or apparatus for moving, conveying, transporting or transmitting bodies.	1004	23rd April 1861	Thomas Peters.
Machinery for raising anchors, stopping cables, preventing cables from riding and other like purposes - - - - -	1020	24th April 1861	George Daniel Davis. Joseph Davis.
Improvements in windlasses worked by capstans, also in the means of stopping or checking the chains in connection therewith.	1043	25th April 1861	Thomas Moore.
An improved apparatus for hauling ashore ships and vessels of all sizes and description.	1077	30th April 1861	Henri Jean Théophile Labat.
An improved chain cable controller for ships' windlasses to prevent riding of cable in paying out and heaving in of same - - -	1080	1st May 1861	Thomas Alfred Kendal. Martin Dadd Rogers.
Machinery for steam vessels - - - (*Hoisting cargo in or out.*)	1118	3rd May 1861	Edward Humphrys.
Construction of radial traversing carriages - - (*For bringing up building materials.*)	1128	4th May 1861	Edward Pease Smith.
Obtaining and applying motive power by aëro-hydraulic means. (*For cranes.*)	1224	14th May 1861	Thomas Charles Boutet.
Machinery and apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways. (*Cranes or hoisting apparatus.*)	1258	17th May 1861	Thomas Dunn.
Machinery or apparatus for tilling or cultivating land.	1296	21st May 1861	William Tasker, junior.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*Application to colliery cages.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
Valves for steam and other engines - - (*For reversing steam winches.*)	1474	10th June 1861	David Rollo.
Machinery applicable to steam cultivation - - (*Double drum windlass.*)	1483	10th June 1861	Robert Romaine.
A floating hydraulic lift stage for raising navigable vessels or other heavy bodies above the surface of the water, and an improved method of "blocking" or "shoreing up."	1499	12th June 1861	William Hammond Walker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HOISTS, &c.—*continued.*			
Improvements (partly for the purpose of preventing accidents) applicable to hoisting-machinery used in mills, warehouses and other places - -	1511	12th June 1861	David Walmsley. John Rostron.
Traction engines - - - - - - (*For raising weights.*)	1744	10th July 1861	Thomas Tertius Chelling-worth. Jonathan Thurlow.
Capstans and windlasses - - - - - (*Communicated by Louis Frederic François David.*)	1811	18th July 1861	John Henry Johnson.
An improved winding apparatus particularly adapted for steam ploughing, winding at pits, quarries and other such like purposes - -	1821	19th July 1861	William Savory. Paul Haines Savory.
An improved mode of overleaping differential levels applicable to canals and to other purposes.	1944	5th Aug. 1861	Frédéric Seiler.
Machinery or apparatus for raising, lowering or moving heavy bodies.	1997	10th Aug. 1861	Andrew Barclay.
Windlasses, capstans and other machinery for hoisting and lowering weights.	2156	30th Aug. 1861	Robert Shaw.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
Improvements in thrashing machines, and in raising and stacking straw and other agricultural produce.	2313	16th Sept. 1861	Weston Tuxford.
Apparatus for raising and stacking straw and other agricultural produce.	2373	23rd Sept. 1861	Henry Brinsmead.
Machinery or apparatus for raising or lowering heavy bodies.	2405	26th Sept. 1861	Samuel Sinclair Robson.
Improvements in machinery and apparatus for raising ships and other vessels out of the water, for the purposes of examination, cleaning or repair, some of which are applicable to the docking of vessels for the same purposes.	2467	3rd Oct. 1861	Henry Law.
Improved combined winding engine, boiler and cooking and distilling apparatus, including improvements also applicable separately.	2499	7th Oct. 1861	Alexander Chaplin.
Improvements in lifting or hoisting apparatus whereby to ensure the safety of the cage or article lifted when a rope or chain breaks or is overwound, and in hoists generally as applied to mills, warehouses and other buildings.	2579	16th Oct. 1861	Joseph Lister. David Myers.
Improvements in windlasses and in checking or stopping chains worked thereby.	2675	25th Oct. 1861	Thomas Moore.
Improvements in the mode of and apparatus for raising sunken ships and other sunken bodies, and also in structures or apparatus intended for being purposely sunk and raised.	2701	28th Oct. 1861	Charles Audouy.
Boring-apparatus such as is used for mining purposes. (*And steam winch.*)	2813	9th Nov. 1861	George Simpson.
An improved chain cable stopper or controller -	2895	18th Nov. 1861	Martin Dadd Rogers.
Apparatus for elevating boiling soap and for dividing the same into bars when congealed.	2921	21st Nov. 1861	Thomas Cowburn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HOISTS, &c.—*continued.*			
Machinery or apparatus for boring and winding purposes.	2987	27th Nov. 1861	Andrew Barclay.
Certain improvements in winding or driving drums or pulleys	3029	3rd Dec. 1861	James Burrows. Joseph Dougan.
Blocks for hoisting	3033	3rd Dec. 1861	Watson Duchemin.
Improvements in traction and other engines and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines (*Engines for hoisting.*)	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Breaks (*For hoisting apparatus.*) (*Communicated by Robert Napier.*)	3060	6th Dec. 1861	John David Napier.
Jack machinery for moving heavy bodies (*Communicated by Félix Winand.*)	3101	11th Dec. 1861	Marc Antoine François Mennons.
Improved hoisting-apparatus (*Communicated by John James Doyle and James Christison.*)	3164	17th Dec. 1861	Alfred Vincent Newton.
Improvements in thrashing-machines and in mills for grinding, and in apparatus for raising or moving grain in granaries and other places	3188	20th Dec. 1861	John Smith, junior. John Birch Higgs
HORSE-SHOES, SHOEING HORSES, HORSE-SHOE NAILS.			
An improved mode of roughing the shoes of horses and other animals to prevent them from slipping in frosty weather.	26	4th Jan. 1861	James Richard Alexander Douglas.
Manufacture of shoes for horses and other hoofed animals. (*Communicated by Rollin Austen Goodenough.*)	251	30th Jan. 1861	George Tomlinson Bousfield.
Horse shoes	327	9th Feb. 1861	Hicks Withers.
Certain improvements in the manufacture of horse nails	728	22nd March 1861	Charles Evers Swindell. Joseph Russell. Joseph Price.
An improvement or improvements in the manufacture of shoes for horses and other beasts of draught and burden, and in the preparation of the metal to be used for this purpose.	842	5th April 1861	William Edwards.
Improvements in the manufacture of nails and in apparatus used thereby. (*For horse shoeing.*)	1161	8th May 1861	Jean Thomas Massiaux.
An improved apparatus to be applied to the shoes of horses and other shod animals to prevent them from slipping in frosty weather. (*Communicated by Pierre Thiry, senior.*)	1361	31st May 1861	Richard Archibald Brooman.
Improvements in the manufacture of heels, clog irons, horse shoes, chain links and similar articles, and in apparatus therefor	1689	3rd July 1861	James Bennie. William Moffat.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HORSE-SHOES, &c.—*continued.*			
Manufacture of horse shoes, boot heels, wheel tyres, rails and safes - - - -	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
Machinery or apparatus for the manufacture of horse shoe and other nails. (*Communicated by Charles Alexandre Louvrier.*)	2319	17th Sept. 1861	George Davies.
Machinery for manufacturing shoes for horses and other animals. (*Communicated by Edward Adams Cutler.*)	2360	20th Sept. 1861	George Tomlinson Bousfield.
Machinery for manufacturing shoes for horses and other animals. (*Communicated by Thomas Randolph Taylor.*)	2520	9th Oct. 1861	George Davies.
The addition to horses' shoes of certain material to prevent slipping.	3047	5th Dec. 1861	Allen Thomas Carr.
Shoes for horses and other quadrupeds - -	3085	9th Dec. 1861	Stephen William Silver. Hall Pringle.
Improvements in the construction of horse shoes -	3219	24th Dec. 1861	Edward Ede.
HORTICULTURE, HOTHOUSES, GREENHOUSES, FERNERIES, HORTICULTURAL CASES, GARDEN POTS, FLOWER STANDS; LAWN MOWING; SULPHURING VINES.			
A portable horticultural and arboretical fruit, flower and plant protector.	41	7th Jan. 1861	William Taylor.
Certain improvements in the construction of boxes for containing earth for growing shrubs or trees, which improvements are also applicable for paving, flooring, building and other purposes.	148	19th Jan. 1861	Frederick George Sanders.
Capsules or covers for the necks or ends of jars, bottles and other vessels, and hollow tubes or bodies. (*For fern stands or Wardian cases.*)	334	9th Feb. 1861	Josiah George Jennings.
An improved apparatus for heating Turkish baths, public and private buildings, vineries, hothouses and cooking ovens.	689	19th March 1861	John Adams Bolton.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making flower stands.*)	853	6th April 1861	Thomas Goulston Ghislin.
Steam-engines and their apparatus for generating steam. (*Connecting hothouse tubes.*)	1029	25th April 1861	George Scott.
An improved impermeable varnish for leather - (*And bellows used in throwing sulphur on vines.*) (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HORTICULTURE, &c.—*continued.*			
Construction of iron windows or casements (*For greenhouses.*)	1620	25th June 1861	Louis Pierre.
Ventilating-apparatus	1629	26th June 1861	Stephen Wenton.
A certain improved method of and apparatus for facilitating the process of grass edge cutting or edge cutting in general.	1724	6th July 1861	Louis Augustin Keily. William Archdall O'Doherty.
Perforated materials in combination with india-rubber. (*For flower pot covers, &c.*)	1736	9th July 1861	George Seaborn Parkinson.
Improvements in the construction of conservatories, orchard houses and other horticultural erections, which improvements are also applicable to the covering of areas such as are used for drill sheds, markets, railway sheds, colonists' and army huts and many other similar purposes.	2117	24th Aug. 1861	James Cranston.
Improvements in glazing horticultural buildings, the roofs of railway stations and other erections.	2235	6th Sept. 1861	Thomas Goode Messenger.
Garden pots	2670	25th Oct. 1861	Charles Neale May.
Construction of horticultural cases (*Communicated by Léon Albert Binet.*)	2719	30th Oct. 1861	Marc Antoine François Mennons.
Glass cases for the cultivation of plants and flowers	2740	1st Nov. 1861	Elizabeth Anne Maling.
Apparatus for heating and warming conservatories, greenhouses, ferneries, orchard houses or other buildings and rooms.	2796	7th Nov. 1861	Samuel Lepard.
Construction of roofs for dwelling houses, horticultural erections and other buildings.	2968	26th Nov. 1861	Isaac Davies.
Improved apparatus for raising the temperature of air in order to warm churches, conservatories, houses and other buildings or places.	3197	20th Dec. 1861	John Redfern.
Improvements in lawn mowing, rolling and collecting machines	3201	20th Dec. 1861	Thomas Green. Willoughby Green. Robert Mathers.
INKS, INKSTANDS, PEN TRAYS.			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For pen and other trays.*)	853	6th April 1861	Thomas Goulston Ghislin.
Inkstands	933	16th April 1861	Robert Ransome.
An improvement in inkstands or ink holders	1212	13th May 1861	George Betjemann. George William Betjemann. John Betjemann.
An improved apparatus for or mode of stopping, plugging or closing inkstands, bottles and other vessels of capacity	1813	18th July 1861	James Archibald Jaques. John Americus Fanshawe.
Self-feeding inkstands (*Communicated by Charles Close.*)	2840	12th Nov. 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
INKS, &c.—*continued.*			
An improved indelible anti-corrosive ink - - (*Communicated by Louis Croc.*)	2972	26th Nov. 1861	Charles Stevens.
Stoppering bottles and other vessels - - (*Inkstands.*) (*Communicated by Mr. Victor Hippolyte Solon.*)	3103	11th Dec. 1861	William Clark.
INLAYING; INLAID WORK.			
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For inlaid flooring.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Manufacture of papier mâché blank trays - -	851	6th April 1861	Benjamin Knowles.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same.	853	6th April 1861	Thomas Goulston Ghislin.
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.
Ornamentation of certain cabinet furniture - (*Imitation marquetry.*)	1661	29th June 1861	John Dyer.
Ornamenting or decorating articles of iron - (*Application of marqueterie.*) (*Communicated by Jean Baptiste Haffner, and Jean Pierre Haffner.*)	1848	23rd July 1861	Ferdinand Hirschfeld.
Improvements in inkstands, applicable to the stoppers of bottles.	1723	6th July 1861	James Ridsdale.
Improvements in inlaying wood, ivory and other substances, and in apparatus employed therein -	1996	10th Aug. 1861	Theodore Schneider. Charles Edward Crawley.
Ornamenting wood in imitation of inlaid work -	2144	28th Aug. 1861	Thomas Bray.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard-wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghisl in.
Ornamenting the covers of photographic albums, books, writing-cases and other like articles. (*To imitate mosaics and marqueterie.*)	2781	5th Nov. 1861	John Peter Bourquin.
JEWELLERY, LOCKETS, BROOCHES, BRACELETS, WATCH CHAINS, SWIVELS AND KEYS.			
Swivels or fastenings for connecting watches to watch chains, for fastening articles of jewellery and for other like purposes.	125	16th Jan. 1861	John Reading.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JEWELLERY, &c.—*continued.*			
An improvement in the manufacture of swivel rings especially applicable to swivels and watch keys.	246	30th Jan. 1861	Ephraim Smith.
Improved means or apparatus for securing watches and preventing the surreptitious abstraction of such articles from the pockets or other parts of the dress of the wearer.	497	26th Feb. 1861	Moritz Orenstein.
Improvements in joints or hinges for jewellery and other articles having or admitting of metal joints or hinges, also for improvements in the manner or means of suspending such articles by or with such joints or hinges.	557	5th March 1861	William Hair Haseler.
An improved fastening or coupling - - (*For pins, brooches, &c.*)	702	20th March 1861	Joseph Eden McDoual.
A more convenient and effectual method of attaching brooches and such like articles, and for improved fastenings to be used therewith and for other purposes - - - - -	758	26th March 1861	William Fulford Brown. Walter Jeffery.
Apparatus used in winding up watches, clocks, time-pieces, musical boxes, or tell tales, or for other purposes to which the same may be applicable.	828	4th April 1861	John Walker Lee.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For ornamenting casket work, for bracelets, breast pins, brooches, eardrops, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles.	869	9th April 1861	Charles Gill.
Joints or hinges of lockets - - -	901	12th April 1861	George Carter Haseler.
An improved means for securing a watch in the pocket of the wearer.	951	18th April 1861	Thomas Borrett Wilkinson.
Fastenings for brooches, pins and other articles of jewellery, which fastenings are also applicable to other articles.	1110	3rd May 1861	Alexander Forbes Rhind.
Fastenings for jewellery or other articles - -	1632	26th June 1861	Edward Abbotts Lingard.
Certain improvements in the fastening of bracelets	1639	26th June 1861	Auguste Lion.
Certain new alloys of silver with other metals, and the processes employed in their manufacture (*For silver jewellery.*) (*Communicated by Henri Catherine de Ruolz.*)	1792	16th July 1861	Charles Denton Abel.
Lockets - - - - - - -	2277	13th Sept. 1861	George Carter Haseler.
Manufacture of pins for hair, dress, jewellery and other purposes.	2368	21st Sept. 1861	Spendlove Desborough.
Watch keys - - - - -	2688	26th Oct. 1861	Samuel Hickling Parkes.
An improved fastening for buttons, studs, solitaires, brooches, civil and military decorations and other like articles.	2730	30th Oct. 1861	Edward Watson.
Producing or delineating ornamental lines and figures on metal and other surfaces. (*Mounts for brooches.*)	2746	1st Nov. 1861	Andrew Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JEWELLERY, &c.—*continued.*			
Improved compositions to be used in making buttons, beads, miniature and picture frames, and other articles susceptible of being moulded in a plastic material - - - - - - (*Brooches and bracelets.*)	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.
An improvement or improvements in ornamenting surfaces. (*Brooches.*)	2996	27th Nov. 1861	Samuel Amphlet.
An improved fastener or protector for Albert guards.	3114	12th Dec. 1861	William Wiggins Godfrey.
JOINING, JOINTING, COUPLING; PIPE JOINTS, RAILWAY JOINTS, FURNITURE JOINTS AND HINGES; PACKING FOR JOINTS.			
An improved method of constructing wooden wheels. (*Partly communicated by F. M. Gibson.*)	7	2d Jan. 1861	Daniel Alley Johnson.
Connecting gas and other pipes - - -	82	11th Jan. 1861	Alphonse Réné Le Mire Normandy.
Machinery for making butt hinges - - - (*Communicated by William Henry Van Gieson.*)	130	17th Jan. 1861	William Spence.
Improved spring hinges - - - - - (*Communicated by Mr. Charles François Alexis Arnaud.*)	255	30th Jan. 1861	William Clark.
Improvements in apparatus for providing against accidents in hoisting-machinery, part of which improvements are applicable to railway carriage coupling links - - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Machinery or apparatus for the manufacture of bitumenized paper pipes and other similar articles.	392	16th Feb. 1861	James Horn.
An improved mode of coupling the rails of railways. (*Communicated by Joseph M. Heard.*)	410	19th Feb. 1861	Alfred Vincent Newton.
An improvement in the frames of spectacles -	421	20th Feb. 1861	James Sutton.
An improvement in railway chairs and being a combined chair and splice.	480	25th Feb. 1861	Edmund Forman Barnes.
Manufacture and mode of laying down submarine electro-telegraphic cables.	481	25th Feb. 1861	George Clark.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material.	482	25th Feb. 1861	George Clark.
Improvements in joints or hinges for jewellery and other articles having or admitting of metal joints or hinges, also for improvements in the manner or means of suspending such articles by or with such joints or hinges.	557	5th March 1861	William Hair Haseler.
Improved apparatus for arresting the progress of railway accidents.	600	11th March 1861	George Williams Baker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Apparatus for lubricating the moving parts of machinery.	608	12th March 1861	Auguste Aerts.
Apparatus for making connections with gas and water mains.	635	14th March 1861	George Simmons.
An improved fastening or coupling - -	702	20th March 1861	Joseph Eden McDoual.
An improved method of locking the nuts on railroad rail bolts. (*Communicated by Messrs. Henry Lawrence, Charles Harcourt White and Thomas Washington White.*)	721	22nd March 1861	William Clark.
Means or apparatus for measuring gas - - (*Communicated by William Richards.*)	749	25th March 1861	William Brookes.
Certain improvements in fire-arms and in the method of rifling the barrels of the same. (*Making a gas-tight joint.*)	773	28th March 1861	Perceval Moses Parsons.
Improvements in steam-engines and boilers, and in apparatus connected therewith. (*Coupling grate bars.*)	783	30th March 1861	John Cass.
Manufacture of the posts and joints or connections of bedsteads and other articles of furniture.	847	5th April 1861	John Hutson.
Dowels - - - - - -	885	10th April 1861	William Rodrigues Rogers.
Joints or hinges of lockets - - - -	901	12th April 1861	George Carter Haseler.
Clutches or connections for machinery - -	939	17th April 1861	John Reed Hill.
Jointing or connecting pipes - - - -	965	19th April 1861	Robert Maclaren.
Steam-engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
An improved connecting link - - -	1049	26th April 1861	Edward Newby.
Steam and water-tight joints for fixing tubes in plates such as are used for surface condensers, distillers, refrigerators, vessels for heating feed water, or tubular boilers. (*Communicated by Horatio Allen.*)	1081	1st May 1861	William Horn.
Landaus, sociables and other like headed carriages -	1086	1st May 1861	Arthur East Holmes.
Improvements in the manufacture of wheels and in apparatus or machinery to be employed therein. (*Connecting together the several parts.*)	1106	2nd May 1861	Peter Wright.
Improvements in engines and implements for ploughing and cultivating land, parts of which improvements are also applicable to other purposes. (*Forming junctions of ropes.*)	1125	4th May 1861	William Collett Homersham.
Rails for street railroads - - - - (*Securing the joints.*)	1148	7th May 1861	Sidney Alexander Beers.
An improvement in joints for articles in metal -	1168	8th May 1861	Ebenezer Hoskins.
Endless or portable railways for facilitating the traction or draught of vehicles.	1187	10th May 1861	Andrew Dunlop.
Apparatus to be employed in steam cultivation - (*Flexible couplings.*)	1232	14th May 1861	James Howard. Edward Tenney Bousfield.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses.	1233	14th May 1861	John Chedgey.
Machinery and apparatus for altering, the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock. (*Tubular connections.*)	1261	17th May 1861	Alexander Allan.
Coupling or connecting joints of pipes for the conveyance of liquid, fluid or solid bodies. (*Communicated by Mr. J. B. Lavril.*)	1291	21st May 1861	Marc Antoine François Mennons.
Construction of locomotive engines - - (*Connecting tank and boiler casing.*)	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
Construction of electric telegraph cables or ropes - (*Splicing or jointing.*)	1329	27th May 1861	Charles Stewart Duncan.
Buffing and coupling apparatus for railway carriages - - - - - - - (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham Harrington Schenley.
Improvements in the manufacture of portable or traction steam-engines, and in apparatus for cutting joints, heads of connecting rods and other articles - - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improvements in machines for making and collecting hay and for collecting similar substances, parts of which improvements are applicable to cutting thistles and other weeds. (*Coupling the teeth of rakes.*)	1333	27th May 1861	William Newzam Nicholson.
Apparatus for converting circular or rotary motion into alternate rectilinear motion. (*Communicated by Mr. François Normand.*)	1334	27th May 1861	George Henry Birkbeck.
Improvements in the manufacture of folding metallic chairs, bedsteads and sofas, and other articles for sitting, lying or reclining upon, a part of which improvements may also be applied to other articles of metallic furniture. (*Construction of joints.*)	1370	1st June 1861	Michael Burke.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making hinges.*)	1446	7th June 1861	Samuel Bennett, junior.
Double action box spring hinges for swing doors -	1455	8th June 1861	John Whines.
Breech-loading fire-arms - - - -	1487	11th June 1861	François Eugène Schneider.
Certain improvements in power looms for weaving -	1552	17th June 1861	William Todd. Jacob Todd.
Compounds of india-rubber and gutta-percha with other substances. (*Packing for steam and water joints.*)	1580	19th June 1861	John Fisher Williams.
Joining wire for telegraphic conductors and other purposes - - - - - -	1907	31st July 1861	John Rylands. Thomas Glazebrook Rylands. Peter Rylands.
Improvements in forming bends and other forms or parts of non-metallic pipes and in machinery or apparatus employed for such purposes, part of which improvements are applicable also to the formation of bends or curves in some kinds of metallic pipes - - - - - -	1924	3rd Aug. 1861	George Bish. James Dredge.
Slide valves to regulate or stop the flow of water, steam or other fluid.	1939	5th Aug. 1861	Hermann Christian Meyer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Manufacture of umbrellas and parasols. - -	2036	15th Aug. 1861	Spendlove Desborough.
Improvements in the manufacture of metallic boxes and in machinery employed therein.	2132	27th Aug. 1861	Emile Peltier.
Means of connecting and disconnecting engines and tenders to and from trains.	2259	11th Sept. 1861	Richard Restell.
Manufacture of curved and angular paper tubes and pipes.	2287	14th Sept. 1861	William Henry Crispin.
Apparatuses for stretching, supporting and uniting telegraph wires. (*Communicated by Charles Pougnaire and Joseph Stephane Bourcy.*)	2310	16th Sept. 1861	Richard Archibald Brooman.
Permanent way of railways - - - - -	2376	23rd Sept. 1861	James Price.
Improvements in joining pipes and tubes or in forming or securing the joints thereof. (*Communicated by Jules Lemoine.*)	2444	1st Oct. 1861	Oscar Octave Lesourd.
Connecting and fastening the bands of covered steel or other materials used for crinolines.	2621	21st Oct. 1861	Colin McDougall.
Joints or connections for metal and other pipes and tubes.	2691	26th Oct. 1861	William Taylor.
Certain improvements in metallic clips or joints for holding, connecting and adjusting crinolines and other like purposes - - - - -	2745	1st Nov. 1861	Myer Myers. Maurice Myers. William Hill.
Certain improvements in the construction of cables or chains for telegraphic and other purposes, and for machinery connected therewith - -	2755	2nd Nov. 1861	Thomas Walker.
Apparatus for communicating from one part of a railway train to another and for coupling pipes.	2773	5th Nov. 1861	James Livesey.
Mode of combining together and securing to the sides of navigable vessels and water batteries armour plates of iron or steel.	2780	5th Nov. 1861	John Beresford Love.
Apparatus for communicating between the passengers and the guard and engine driver of a railway train. (*Coupling for shafts.*)	2836	12th Nov. 1861	John Davidson.
Construction of steam or other vapour and water or other liquid-tight joints. (*Communicated by Joseph Harrison.*)	2843	12th Nov. 1861	John Henry Johnson.
An improved mode of constructing and fixing the rails of railways.	2897	18th Nov. 1861	Charles Marie Pouillet.
An improved locomotive apparatus particularly adapted to agricultural purposes. (*Attaching implements to locomotives.*)	2948	23rd Nov. 1861	William Bray.
Shoes for horses and other quadrupeds - - (*Forming with joints.*)	3085	9th Dec. 1861	Stephen William Silver. Hall Pringle.
The use of aluminum for the construction of mathematical instruments used for geometrical drawing, surveying and nautical purposes, and improvements connected therewith. (*Construction of joints.*)	3092	10th Dec. 1861	William Ford Stanley.
An improved mode of jointing or connecting telegraph wires, which is also applicable to jointing or connecting signal wires, fencing wires and other wires or rods.	3109	11th Dec. 1861	John Potter.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Improvements in locomotive engines, parts of which improvements are also applicable to marine and stationary engines.	3120	12th Dec. 1861	Joseph Dominique Jobin.
An improvement or improvements in the manufacture of the middle joints of measuring-rules.	3125	13th Dec. 1861	Frederick Brampton.
An improved mode of constructing dovetail joints -	3146	14th Dec. 1861	William Rodrigues Rogers.
Improvements in the arrangement of traction and connecting apparatus for railway carriages and trains. (*Communicated by M. Claude Arnoux.*)	3227	24th Dec. 1861	George Henry Birkbeck.
Improvements in steam generators and in fire bars employed therein. (*Communicated by Alexandre Friedmann and Emile d'Erlanger.*)	3246	27th Dec. 1861	Richard Archibald Brooman.
Improvements in the construction of boats for sailing or rowing - - - - -	3252	30th Dec. 1861	John Peter Dormay. James Shirley Aikenhead. Thomas Johnson.
KNIVES, FORKS, SPOONS, SCISSORS, SHEARS; CLEANING KNIVES.			
Improvements in the manufacture of blades for knives, razors, swords, bayonets and other similar articles, and in apparatus to be used in such manufacture. (*Communicated by André Nadal.*)	115	15th Jan. 1861	George Davies.
Apparatus for rolling metal - - - (*Forks and spoons.*)	195	24th Jan. 1861	Daniel Joseph Fleetwood.
An improved method of treating needles used in sewing and other machines, applicable also to those parts of such machines that hold the needles, and applicable to all other descriptions of needles, and to scissors and to thimbles treated in like manner.	416	20th Feb. 1861	Benjamin Nicoll.
Improvements in the manufacture of boots, shoes and other coverings for the feet, and in tools for cutting the soles of such articles.	602	11th March 1861	John Thomas Hutchings.
Machinery for cutting and harvesting grain, grass and other substances. (*Formation of cutters.*) (*Communicated by William Van Anden.*)	822	3rd April 1861	William Edward Newton.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For razor and knife handles.*)	853	6th April 1861	Thomas Goulston Ghislin.
New or improved machinery for grinding and polishing swords, machetts and knives, which said machinery may also be employed for grinding gun barrels and files and for other like purposes.	921	15th April 1861	Edgar Brooks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
KNIVES, &c.—*continued.*			
Cutting apparatuses for reaping and mowing machines.	967	19th April 1861	John Ridley.
Apparatus for cleaning boots and shoes, which are also applicable for cleaning knives, forks, plate and other articles.	1140	6th May 1861	George Henry Ellis.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making spoons.*)	1446	7th June 1861	Samuel Bennett, junior.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass. (*Brushes for knife cleaning.*)	1753	11th July 1861	William Wilkinson.
A new and useful or improved combined knife, fork and spoon for camp or other purposes.	1960	7th Aug. 1861	William Henry Richards.
Manufacture of sheep-shears - - -	1971	8th Aug. 1861	John Coldwell. William Coldwell.
Apparatus for cleaning and polishing boots, shoes and other coverings for the feet, partly applicable for cleaning plate and other articles of domestic use - - - - - - -	2300	16th Sept. 1861	Samuel Horsley. Edward Hobson Jones.
Means of fastening or securing the handles of table knives and forks, daggers and other similar articles.	2355	20th Sept. 1861	James Burnand.
Tools for the manufacture of leather and other rings, washers and laces.	2447	1st Oct. 1861	John William Scott.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed. (*Handles for cutlery.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering razor blades, machine knives, &c.*)	2664	24th Oct. 1861	James Chesterman.
Construction of scissors and shears - -	2743	1st Nov. 1861	Benjamin Mitchell. William Brunton.
Means or apparatus for rolling metals - - (*Giving form to knives.*)	2898	18th Nov. 1861	Guillaume Prodon-Bonneton. Marthe Guillaume-Prodon.
An improved fastening for boxes and cases - (*Razor cases.*)	3003	28th Nov. 1861	Frederic Foveaux Weiss.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*Splitting-knife.*) (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson-Bousfield.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, LANTERNS, CHANDELIERS, CANDLESTICKS, LAMP FURNITURE, GLASSES, AND SHADES; LIGHTING.			
Safety and other lamps - - -	239	29th Jan. 1861	Charles Edward Crawley. Theodore Schneider.
Safety apparatus for lighting mines - -	438	21st Feb. 1861	Herbert Panmure Ribton.
An improvement or improvements in glass chimneys for lamps with flat wicks.	472	23rd Feb. 1861	James Hinks.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*For lighting.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
Construction of houses and footways - - (*Lighting.*)	624	13th March 1861	Julius Jeffreys.
Construction of candlesticks and lamps in order to render them self-extinguishing.	631	14th March 1861	Daniel Fryer.
Apparatus to protect the flame of a candle from draught.	695	20th March 1861	Henry Albert Bartlett.
Manufacture of globes or shades and chimneys for lamps, gaslights or gas burners.	747	25th March 1861	William Bailey.
Lamps - - - - - - (*Communicated by Pierre Vanrechen.*)	766	27th March 1861	William Edward Gedge.
Candle-sticks and candle holders - -	841	5th April 1861	Robert Benjamin Greenwood.
Improvements in obtaining light and in the apparatus employed therein.	927	15th April 1861	Frederick Gye.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Improved apparatus for receiving and consuming the residues of candles or other fatty or oleaginous substances.	1015	24th April 1861	Sampson Handley.
Improved candlesticks - - -	1160	8th May 1861	Jean Nadal.
An improved magic lantern and of views to be used therewith. (*See* "OPTICAL INSTRUMENTS.") (*Communicated by Henri Alexandre Lefevre.*)	1218	13th May 1861	John Henry Johnson.
Gas and other lamps - - - -	1237	15th May 1861	Edward Curtis Kemp. Thomas Hall.
Safety and other lamps - - -	1248	16th May 1861	William Renwick Bowditch.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Lighting.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Gas chandeliers - - - -	1343	29th May 1861	Comyn Ching.
Lamps specially intended to burn oils and other inflammable fluids rich in carbon.	1636	26th June 1861	Henry Coulter.
An improvement in hand lamps - -	1654	28th June 1861	Henry James Rouse.
Apparatus for lighting - - -	1711	5th July 1861	Jules Emile Melon de Pradou. Louis Gustave Lecoq.
Safety lamps - - - -	1789	16th July 1861	Richard Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Lamps - - - - -	1793	16th July 1861	William Palmer.
Method of and apparatus for obtaining an increased effect from lights. (*Communicated by Charles François Le Page and Cyprien Poisson.*)	1834	20th July 1861	Michael Henry.
An improved self-acting tap or apparatus for the convenient passage of lighted gas or other illuminating fluid or liquid, and particularly adapted for lighting cigars - - - - (*Communicated by Theodore Byron Hubbell.*)	1909	1st Aug. 1861	Benjamin Browne.
Optical and illuminating apparatus - - (*Communicated by William Ferdinand Count de Douhet.*)	2083	21st Aug. 1861	William Clark.
Manufacture of ladies' collars, cuffs or other ornamental articles for dress or furniture, to imitate such articles made of lace or embroidery - (*Lamp shades.*)	2124	26th Aug. 1861	Auguste Lechêne. Charles Nathan.
A new and economical method of producing dynamic electricity thereby obtaining useful chemical compounds. (*Or for lighting.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Lamps - - - - -	2301	16th Sept. 1861	Martin Rae.
An improvement in the light given by street and other lamps, by means of reflectors in white earthenware, china and all enamel materials, in conjunction with an improved chimney to draw up the exhalations and smoke of all lighting materials.	2316	17th Sept. 1861	Frederic Barnett.
Improvements in the construction of and appliances to steam ships or other vessels - - - (*Lighting between decks.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Certain improvements in lamps and lamp wicks whereby they are adapted for more effectively burning animal, linseed and other heavy and also glutinous and bituminous oils, and other burning fluids employed for illuminating purposes - - - - - -	2356	20th Sept. 1861	George Roberts. Frederick Lambe.
Improvements in gaseliers and in ventilating apparatus connected therewith.	2361	21st Sept. 1861	Louis Rudolph Bodmer.
Lamps for burning palm or other similar fat oil -	2409	26th Sept. 1861	Jacques Denis Desiré Passager.
An improved miners' lamp - - -	2512	8th Oct. 1861	Isaac Evans, junior.
Lamps and lamp wicks - - - -	2523	9th Oct. 1861	William Palmer.
Lamps - - - - -	2591	18th Oct. 1861	William Croome.
Means for igniting the wicks of candles and lamp wicks.	2620	21st Oct. 1861	Henry Lamplough.
Lamps for burning coal oil and similar fluids - (*Communicated by Joseph Thomas and Joseph Tindall Van Kirk.*)	2658	24th Oct. 1861	George Davies.
Certain improvements in the construction of lamps	2721	30th Oct. 1861	Edwin Boden.
Improvements in steam boilers applicable also to other vessels or chambers containing steam. (*Lighting the interior.*)	2741	1st Nov. 1861	Thomas Boden Whitehead.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Match boxes or cases - - - - (*And adaptation to candlesticks.*)	2821	9th Nov. 1861	Edward Loysel.
Safety lamps - - - - - (*Communicated by Mr. Pierre Dernoncourt.*)	2829	11th Nov. 1861	William Clark.
Gas lamps, glasses and other fittings - -	2851	13th Nov. 1861	Edward Curtis Kemp.
"Davy" or other safety lamps for miners - -	2922	21st Nov. 1861	James Parkinson. Charles Henry Minchin.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*For decoration of gaseliers.*)	2944	23rd Nov. 1861	John Weems.
Pendent lamps - - - - - -	2984	27th Nov. 1861	John Cook.
Lamps and utensils thereof - - -	3013	29th Nov. 1861	Pacifico Tagliacozzo.
Improvements in lamp glasses for lamps burning paraffine and other light mineral oils.	3210	21st Dec. 1861	William Charles Miles.
Certain improvements in urns or vessels for holding and supplying hot water, tea, coffee or other liquids separately or conjointly, as also in the stands for the same - - - - (*Illuminating designs.*)	3228	26th Dec. 1861	Thomas Simmons. Thomas Timmins.
Improvements in deflectors for lamps - - (*Communicated by Lemuel Beers.*)	3267	31st Dec. 1861	William Spence.
LEATHER, SKINS AND HIDES; ARTIFICIAL LEATHER AND PARCHMENT; UNHAIRING AND TANNING LEATHER; CUTTING AND ORNAMENTING LEATHER; MAKING LEATHER LACES.			
Preserving organic substances - - - (*Raw hides, &c.*)	46	8th Jan. 1861	William Rattray.
Tanning hides and skins - - - (*Communicated by Samuel Dunseith.*)	65	10th Jan. 1861	John Henry Johnson.
Machinery for preparing and treating hides and skins in the manufacture of leather.	136	17th Jan. 1861	Edouard Jullien.
Machinery for separating the fur or hair from the skins of animals.	198	24th Jan 1861	James Vero.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented.	306	6th Feb. 1861	Thomas Gee.
Manufacture of artificial leather or a substitute for leather - - - - - -	337	11th Feb. 1861	Eugene Gervaise. Joseph Emile Bernier.
A new system of ornamenting skin gloves - -	381	15th Feb. 1861	Jean-Baptiste Honoré Félix Camille Nicolet.
Silvering glass and other surfaces - - - (*Leather.*)	619	13th March 1861	John Cimeg.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LEATHER, &c.—*continued.*			
Improvements in tanning and in the apparatus employed therein. (*Communicated by Yves Auguste Rehn.*)	640	14th March 1861	Augustin François Ménard.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan"), and all other woody fibre, also improved apparatus to be employed therefor. (*See* "DISTILLING—*bituminous.*")	650	15th March 1861	William Lorberg.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Improved means of coloring enamelled leather, leather cloth, enamelled metal and other enamelled surfaces. (*Communicated by Adrien Jacques Basset.*)	722	22nd March 1861	Richard Archibald Brooman.
Machinery or apparatus for stitching, uniting and ornamenting leather and other similar materials. (*Communicated by Elmer Townsend.*)	816	2nd April 1861	John Sickels.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*A substitute for leather.*)	853	6th April 1861	Thomas Goulston Ghislin.
Gloves - - - - - - - (*Of vegetable parchment.*)	958	18th April 1861	Mary Buchanan.
Treating hides and skins to render them suitable to be made into straps for driving machinery, and to be used for other purposes for which leather is commonly employed.	1035	25th April 1861	William Harris.
Certain new chemical combinations and for the application thereof to fixing aniline and pigment colours in printing and dyeing, to tanning, waterproofing and other industrial purposes. (*Communicated by Doctor Francis Leopold Sonnenschein.*)	1079	30th April 1861	Jacques Meyer.
Apparatus for perforating paper, parchment and other substances - - - - -	1127	4th May 1861	John Martin Baab. Friederich Otto Thomas.
Treating skins for the manufacture of leather -	1481	10th June 1861	James Steart.
An improved impermeable varnish for leather - (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
Compounds of india-rubber and gutta-percha with other substances. (*Substitutes for leather.*)	1580	19th June 1861	John Fisher Williams.
Improvements in obtaining the separation of feathers, hair or other covering from the skins of animals and in securing such in position when separated - - - - - -	1634	26th June 1861	Joseph Randall Tussaud. Francis Curtius Tussaud.
Machinery for splitting, dividing or shaving leather or skins or sheets of manufactured fabrics.	1906	31st July 1861	Joseph Follansbee Flanders.
Improvements in tanning and in the apparatus employed therein. (*Communicated by Yves Auguste Rehm.*)	2037	15th Aug 1861	Augustin François Menard.
Preparation, application and manufacture of peat - (*For peat leather.*)	2058	19th Aug. 1861	William Henry Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LEATHER, &c.—*continued.*			
A new kind of artificial fur to be made by means of the jacquard or other loom with silk or other textile material. (*Communicated by Antoine Denis and Adolphe Mottet.*)	2126	26th Aug. 1861	Frederick Tolhausen.
Manufacture of shirt collars and fronts, wristbands or cuffs, neck ties or other similar articles of wearing-apparel.	2140	28th Aug. 1861	Arthur Granger.
Improvements in treating hides and skins - -	2295	14th Sept. 1861	Henry Constantine Jennings.
Tools for the manufacture of leather and other rings, washers and laces.	2447	1st Oct. 1861	John William Scott.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Preparation or treatment of skins and hides - (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.
A new process of tanning - - - - -	2844	12th Nov. 1861	Louis François Duval. Louis André Beaudet.
Mode of preparing and subsequently tanning hides or skins.	2879	15th Nov. 1861	Louis Anthony Soupart.
Improvements in printing and ornamenting textile fabrics, paper hangings and other materials, and in surfaces and apparatus for such purposes. (*Ornamenting artificial leather.*) (*Communicated by Alexandre Adrien Despréaux.*)	3055	5th Dec. 1861	Michael Henry.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*And gilding leather.*) (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
Improvements in the manufacture of driving straps or bands, the backs of wire cards and cop tubes.	3224	24th Dec. 1861	John Bland Wood.
LOCKS, LATCHES, BOLTS, LOCK FURNITURE; SAFES AND TILLS.			
An improved lock for receiving and securing umbrellas, canes and similar articles.	84	11th Jan. 1861	Alfred Mills Foote.
Locks - - - - - - -	324	9th Feb. 1861	O'Donnell Grimshaw.
Locks and latches - - - - -	401	18th Feb. 1861	Cyrus Price. Elihu Price.
An improved safety lock - - - -	882	10th April 1861	Auguste Victor Morel.
Certain improvements in locks and other fastenings	1098	2nd May 1861	Michael Winkler.
Door locks, lock spindles and knobs - -	1299	22nd May 1861	Samuel Parkes Matthews.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOCKS, &c.—*continued.*			
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making parts of locks.*)	1446	7th June 1861	Samuel Bennett, junior.
An improved clasp or fastener - - -	1577	19th June 1861	Peter Pradel.
Construction of locks and adaptation thereof to various useful purposes.	1799	17th July 1861	Charles Edward Redfern.
Safety locks - - - - - - (*Communicated by François Julien Toulze.*)	1835	22nd July 1861	Marc Antoine François Mennons.
Locks and keys - - - - - (*Communicated by Jean Baptiste Haffner and Jean Pierre Haffner.*)	1850	24th July 1861	Ferdinand Hirschfeld.
Arrangement or construction of parts of locks or fastenings.	1902	30th July 1861	John Matthias Hart.
Improvements in locks and other fastenings and in keys. (*Communicated by Auguste Théodore Baudrit.*)	1943	5th Aug. 1861	Richard Archibald Brooman.
Manufacture of horse shoes, boot heels, wheel tyres, rails and safes - - - - - -	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
Improvements in handles or knobs of locks and latches, and in the means of applying them -	2139	27th Aug. 1861	John Matthias Hart. Robert Lavender.
Locks - - - - - - -	2206	5th Sept. 1861	Robert McConnel.
Tills or receptacles for money - - -	2299	14th Sept. 1861	Thomas Webb.
Means of securing the doors of railway carriages -	2734	31st Oct. 1861	John Americus Fanshawe. James Archibald Jaques.
An improved mode of fastening doors and for other similar purposes.	2915	20th Nov. 1861	Joseph Cooper Croxford.
An improvement or improvements in fastening knobs to doors, drawers and other articles, and in connecting knobs to spindles.	2969	26th Nov. 1861	Robert Harcourt.
Locks - - - - - - -	3159	17th Dec. 1861	Walter Henry Tucker.
LOOKING GLASSES AND FRAMES.			
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For looking glass frames.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOOKING GLASSES, &c.—*continued.*			
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For looking glass frames.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Coating and protecting the silvered surfaces of looking-glasses or mirrors.	454	22nd Feb. 1861	James Edgar Cook.
Improvements in specula and in plugs used in connection therewith. (*See* "SURGERY.")	502	27th Feb. 1861	Henry Joseph Francis Hubert Foveaux.
Manufacture of glass - - - - - (*Mirrors.*)	554	5th March 1861	Tony Petitjean.
Silvering glass and other surfaces - - -	619	13th March 1861	John Cimeg.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For mirror and chimney glass frames.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass.	1753	11th July 1861	William Wilkinson.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames and other ornamental and useful purposes. (*To looking glass frames.*) (*Communicated by Mr. Frederic Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Application of mica to ornamental and other purposes. (*For covering frames.*) (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.
An improved process for silvering looking glass in piles of several sheets superposed without interruption, which process consists in the use of a chemical powder.	2477	4th Oct. 1861	Charles Husson.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - (*Looking-glass frames.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Frames for looking glasses.*) (*Communicated by Robert Marcher.*)	2912	20th Nov. 1861	John Henry Johnson.
MANGLING, IRONING, GOFFERING, ROUCHING.			
Washing, wringing and mangling machines, applicable also for dyeing or bleaching purposes, to be called "The Nottingham washing-machine"	787	30th March 1861	George Barton. Thomas Soar.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MANGLING, &c.—*continued.*			
Washing, wringing and mangling machines	1284	20th May 1861	William Parkinson.
An improved ironing stove	1464	8th June 1861	Juliana Martin.
Washing, wringing and mangling machines	1699	4th July 1861	Richard Mills.
Machinery for washing, wringing, mangling and churning.	1731	8th July 1861	Richard Hornsby, junior.
Improvements in heating cylinder-irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated irons are ordinarily used, and in apparatus connected therewith	1801	17th July 1861	Sir John Hare, *Knight.* Barnabas Russ.
Washing, churning, wringing and mangling machines.	1897	30th July 1861	Thomas Bradford.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Mangles	2401	26th Sept. 1861	Henry Nunn.
Smoothing irons (*Communicated by Charles Jean Baptiste Eugene Cailloue.*)	2404	26th Sept. 1861	John Henry Johnson.
Improvements in machinery or in apparatus connected therewith in the manufacture of bonnet and cap fronts, rouches and millinery or other trimmings.	2462	2nd Oct. 1861	Charles Grey Hill.
Apparatus for goffering or embossing stuffs in high relief.	2804	8th Nov. 1861	Henry Montucci, Ph.Dr.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
MANTEL-PIECES.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For mantel-pieces.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Improvements in the manufacture and ornamentation of metallic chimney-pieces or mantel-pieces, and in the ornamentation of metallic stoves and fire-places.	1340	29th May 1861	Henry Crichley.
MANURE; TREATING SEWAGE.			
Improvements in urinals and in the manufacture of manure when urine is used	249	30th Jan. 1861	Henry Phillips. James Bannehr.
Manufacture of manure	424	20th Feb. 1861	Thomas Richardson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MANURE, &c.—*continued.*			
Improvements in the preparation of fish and sea animals for manure, and in apparatus connected therewith.	684	19th March 1861	Jacob Jervell.
Apparatus for receiving, drying and deodorizing human excrement.	876	9th April 1861	Francis Taylor.
A new artificial manure - - - - (*Communicated by Hypolite Louis Marie Planchais.*)	1019	24th April 1861	Charles Stevens.
An improved method of and apparatus for intercepting and carrying off the sewage of large towns and preventing the defilement of rivers thereby.	1040	25th April 1861	Edward Strangman.
The treatment of ammoniacal waters resulting from putrified urines and from products extracted by the distillation of coal. (*Communicated by Messrs. Louis Joseph Frédéric Margueritte and Alfred Lalouël de Sourdeval.*)	1217	13th May 1861	William Clark.
Improvements in manufacturing manure and in obtaining accessory products.	1276	18th May 1861	Frederick Oldfield Ward.
Obtaining products from sea weeds - - (*Ash for manure.*)	1411	4th June 1861	Edward Charles Stanford.
An improved crushing and pulverizing machine - (*For phosphate of lime, guano, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
An improvement in treating bones and the manufacture of the products thereof. (*Super-phosphate of lime.*)	2032	15th Aug. 1861	John Cowdery Martin.
An improved manufacture of manure - -	2159	30th Aug. 1861	Alexandre Jaille.
Improvements in obtaining manure from sewage, and in the apparatus employed therein.	2229	6th Sept. 1861	Charles Felton Kirkman.
Improvements in the mode of obtaining certain chemical substances and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - - -	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
An improved artificial manure - - -	2525	9th Oct. 1861	Thomas Tidmarsh.
Method of obtaining ammoniacal salts and other valuable products from liquors or substances containing ammonia, and for utilizing the residuum - - - - - -	2540	11th Oct. 1861	Charles Noyes Kernot. Martin Diederich Rucker.
Means or apparatus for raising water or other fluids (*Sewage.*)	2714	29th Oct. 1861	John Hayward.
Treating certain natural saline compounds to fit them for agricultural use and in order to obtain potash and other salts - - - - -	2871	14th Nov. 1861	Frederick Robert Hughes. Thomas Richardson.
Improvements in the manufacture of manure -	3265	31st Dec. 1861	Thomas Pickford.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MAPS; REPRESENTING ATMOSPHERICAL PHENOMENA.			
Improvements in instruments or a combination of conductors and attachments for transmitting and recording messages in any form of letter or character by means of electricity or electro-magnetism acting either mechanically or chemically, and which invention may also be applied to the transmitting or copying figures as maps of any form of outline.	400	18th Feb. 1861	Edmund Forman Barnes.
Means for indicating and representing various meteorological or atmospherical phenomena or influences.	625	14th March 1861	Arthur John Joyce.
MATCHES, FUSES, PIPE LIGHTS, SPILLS.			
Manufacture of lucifer matches - - -	344	11th Feb. 1861	Henry Baker.
Improved apparatus for cutting wood for lucifer matches - - - - -	609	12th March 1861	Edward Frementin. Martial Aubonnet.
Mode of and apparatus for manufacturing lucifer matches.	655	15th March 1861	William Schnell.
Safety fuses for mining and other purposes -	719	22nd March 1861	Joseph Victor. James Polglase.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making matches, tapers, pipe lights, &c.*)	853	6th April 1861	Thomas Goulston Ghislin
Apparatuses for arranging splints for matches and for placing them in the frames ready for "dipping."	1307	23rd May 1861	John Hynam.
An improvement in the manufacture of matches -	1338	29th May 1861	Robert Michael Letchford.
Machinery or apparatus for the manufacture of matches. (*Communicated by Ottmar Walch.*)	1391	3rd June 1861	Oscar Muck.
Improved machinery or apparatus for arranging and securing splints, tapers or matches in frames preparatory to dipping.	1638	26th June 1861	Samuel Alexander Bell.
An improved self-acting tap or apparatus for the convenient passage of lighted gas or other illuminating fluid or liquid and particularly adapted for lighting cigars. (*Communicated by Theodore Byron Hubbell.*)	1909	1st Aug. 1861	Benjamin Browne.
An improved lucifer match and prepared paper for igniting the same.	1910	1st Aug. 1861	Horatio Mearing.
Machinery for cutting, sawing and slicing or planing wood and other substances. (*Forming spills for lighting.*)	2049	17th Aug. 1861	Philip Walters.
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MATCHES, &c.—*continued.*			
Manufacture of safety fuzes - - - -	2433	30th Sept. 1861	John Solomon Bickford. George Smith.
An improved composition for igniting lucifer matches. (*Communicated by Messrs. Auguste Halinbourg and Léopold Ber.*)	2718	30th Oct. 1861	Marc Antoine François Mennons.
Match boxes or cases - - - - -	2821	9th Nov. 1861	Edward Loysel.
An improved lucifer match and prepared paper for igniting the same.	2988	27th Nov. 1861	Horatio Mearing.
Improved machinery for filling dipping clamps with tapers, match stems and splints.	3096	10th Dec. 1861	Thomas Higgins.
Improvements in apparatus for the manufacture of matches. (*Communicated by Messrs. Francis Lavallée and Francis Gustave Lavallée, junior.*)	3196	20th Dec. 1861	William Clark.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services.	3250	28th Dec. 1861	Arthur Warner.
MEASURING AND GAUGING LENGTH, SIZE AND QUANTITY; REGISTERING AND COUNTING WORK PERFORMED IN MACHINES, LOOMS, &c.; COUNTING MONEY.			
Machinery or apparatus for measuring and registering the lengths of woollen, flax, cotton and other fabrics, applicable to registering lengths, distances and revolutions generally.	23	4th Jan. 1861	William Henry Hore.
Machinery or apparatus for folding and measuring woven or textile fabrics, paper and other materials, and for introducing cards into the folds ready for the press.	304	6th Feb. 1861	Adolphe Drevelle.
An improved stadium or telemeter - -	402	19th Feb. 1861	Alfred Carter.
Looms for weaving - - - - - (*Indexing apparatus.*)	1158	8th May 1861	Thomas Blackburn. Mark Knowles.
Construction of electric targets for rifle and gun practice. (*Recording the hits.*)	1246	16th May 1861	Frederic Newton Gisborne.
Improvements in cocks or taps for drawing off liquids and in gauging apparatus connected therewith. (*Communicated by Messrs. Auguste Terré and Etienne Morelle.*)	1642	27th June 1861	Marc Antoine François Mennons.
Perpetual calendars to be used either separately or in connection with watches or clocks.	1759	12th July 1861	Samuel Berchtold.
Improvements in producing and treating printing surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEASURING, &c.—*continued.*			
Machines for weighing and measuring corn and other grain. (*Communicated by Joseph Alexandre Auguste Catenot.*)	2279	13th Sept. 1861	Richard Archibald Brooman.
An improved apparatus for counting money -	2468	3rd Oct. 1861	James Alfred Tannahill.
An improved apparatus for purifying, measuring and weighing grain and oleaginous seeds.	2686	26th Oct. 1861	Jean Louis Sicard.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
The use of aluminum for the construction of mathematical instruments used for geometrical drawing, surveying and nautical purposes, and improvements connected therewith.	3092	10th Dec. 1861	William Ford Stanley.
An improvement or improvements in the manufacture of the middle joints of measuring rules.	3125	13th Dec. 1861	Frederick Brampton.
MEASURING AND REGISTERING PROGRESS OF LOCOMOTIVES, CARRIAGES AND SHIPS; COUNTING APPARATUS OR TURNSTILES FOR CABS, &c.; MEASURING DEPTH OF WATER AND VELOCITY OF STREAMS; TAKING SOUNDINGS.			
Machinery or apparatus for measuring and registering the lengths of woollen, flax, cotton and other fabrics, applicable to registering lengths, distances and revolutions generally. (*Suitable for turnstiles, cabs, &c.*)	23	4th Jan. 1861	William Henry Hore.
Improved apparatus for indicating the number of persons, vehicles or articles passing or being made to pass any place or part of a machine, especially applicable to omnibuses.	24	4th Jan. 1861	James Cocker.
An improved log or instrument for measuring the speed of ships and the velocity of streams of water.	218	28th Jan. 1861	John Boulby.
Improvements in electric telegraphs and in apparatus connected therewith. (*Indicating speed of ship; apparatus for sounding.*)	734	23rd March 1861	William Thomas Henley.
Apparatus used in winding up watches, clocks, time-pieces, musical boxes, or tell-tales, or for other purposes to which the same may be applicable.	828	4th April 1861	John Walker Lee.
Plummets and gauges for indicating the depth and the height or level of liquids.	1545	17th June 1861	David Blair White.
Apparatus used in sounding the holds of ships or vessels.	2359	20th Sept. 1861	Francis William Wymer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEASURING, &c.—*continued.*			
Improvements in the construction of apparatus for signalling on railways, by which improvements the signalling apparatus is rendered self registering or recording, and also applicable for measuring and recording the speed of passing trains and the time of their passage, part of which improvements is applicable for recording the speed of trains where signalling is not required - - - - -	2606	18th Oct. 1861	Charles Cheyne. Thomas Beeby Moseley.
Apparatus for regulating and indicating the speed of steam-engines and other machinery.	2979	27th Nov. 1861	John Standfield.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
Apparatus for registering the depth and flow of liquids and the distances run by ships at sea.	3129	13th Dec. 1861	John Walter Friend.
Means or apparatus for indicating the speed of vessels and for taking soundings.	3130	13th Dec. 1861	Thomas Walker.
MEDICINES AND CURATIVE APPARATUS; INFANTS' FEED-BOTTLES; CHEST-EXPANDERS; MEDICAL BATHS; INVALID BEDS, &c.			
Treatment of soda waste and sulphurets - - (*Obtaining Epsom salts.*)	330	9th Feb. 1861	John Louis Jullion.
Improved preparations for the cure and prevention of toothache and the preservation of teeth.	383	15th Feb. 1861	Moses Abraham Prenslan.
Apparatus for feeding infants and invalids -	439	22nd Feb. 1861	Benoit Lang.
Improvements in mechanical beds for invalids, applicable also to tables for anatomical or surgical operations. (*Communicated by Charles Augustin de Beriot.*)	490	26th Feb. 1861	George Davies.
An improved apparatus for drawing liquid substances from vessels containing the same. (*From feed bottles.*)	491	26th Jan. 1861	Robert Tiernan.
An ointment for the cure of sores - - - (*Communicated by Marc Pène.*)	537	2nd March 1861	Charles Stevens.
Apparatus for administering medicated and voltaic baths. (*Communicated by Edmond Hiffelsheim, Gustave Hagen and Paul Baudet.*)	567	5th March 1861	John Henry Johnson.
An improved electro-galvanic friction brush - (*Communicated by Julius Imme.*)	669	16th March 1861	Alexander Prince.
Glass stoppers applicable to feeding-bottles, retorts and other vessels.	692	19th March 1861	George Wilson.
Making up or packing charges or small quantities of gunpowder, drugs or other articles.	752	25th March 1861	Thomas Bentley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEDICINES, &c.—*continued.*			
An improved "douche" for the ear and other parts of the human body	761	26th March 1861	John Savory. William Robert Barker.
Apparatus for evaporating in vacuo (*Preparing medicinal extracts.*)	781	30th March 1861	James John Field.
Rendering pills tasteless by means of a coating of albumen.	925	15th April 1861	Robert Charles Furley.
Medicated belts or bands for the alleviation of pain in or prevention of cholera, and for the prevention or cure of pulmonary or other complaints.	937	17th April 1861	William Jenkins.
An aphrodision phosphorised nervine tonic	1100	2nd May 1861	Lewis Jacob Jordan.
Apparatus for facilitating the imbibing of liquids (*For invalids.*)	1126	4th May 1861	William Palmer.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Cure of disease.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Obtaining products from sea-weeds (*Sal-ammoniac.*)	1411	4th June 1861	Edward Charles Stanford.
Improvements in apparatus for supplying liquid nourishment to infants and invalids, and in the application of such improvements to the feeding of animals.	1500	12th June 1861	John Albert Dauncey.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.
Apparatus for the treatment of bodily pain with hot water, steam, hot air and the like.	1885	27th July 1861	James Robertson.
Preparing medicinal substances and compounds from the livers of cod and other salt water fish.	1892	29th July 1861	Charles Constant Joseph Guffroy.
An improved chest expander	1940	5th Aug. 1861	Samuel Sheldon Fitch.
An improved odontalgic elixir (*See* "DENTISTRY.") (*Communicated by Jean Pierre Tajan.*)	1947	6th Aug. 1861	Marc Antoine François Mennons.
Apparatus for administering injection in a continuous stream, also applicable as an eye douche and other purposes.	2123	26th Aug. 1861	George Nye.
A new medicinal preparation applicable internally for rheumatism and other disorders.	2438	30th Sept. 1861	Etienne Reoche.
The preparation and application of certain new hemostatic and antiseptic agents.	2441	30th Sept. 1861	Pierre Alexis Francisse Bobœuf.
An improvement in coating pills for rendering them tasteless.	2553	12th Oct. 1861	Robert Charles Furley.
An improved cup or vessel for administering liquids (*Communicated by Charles Halphen.*)	2946	23rd Nov. 1861	Richard Archibald Brooman.
An improved infant's feeding bottle	3012	29th Nov. 1861	Robert Crawford Perry.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes, and for preserving liquids and solids alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.
A new and improved electro-voltaic pocket battery (*Partly communicated by Henry Palmer.*)	3100	10th Dec. 1861	John Washington Agnew.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALLIC SALTS AND OXIDES.			
Mode of obtaining or manufacturing commercial salts of lead directly from the ores of lead.	20	4th Jan. 1861	Thomas Cobley.
The manufacture of sub- or oxi- sulphate of lead - (*Communicated by Mr. Ludwig Brumlen.*)	335	9th Feb. 1861	Augustus Leidemann. Theodore Lange.
Manufacture of white lead, zinc white, and glazing or potters' lead	376	14th Feb. 1861	Thomas Cobley.
Certain improvements in the manufacture of white lead, and other salts of lead direct from ores containing carbonate of lead.	642	15th March 1861	John Arthur Phillips.
Preparation of hydrated oxide of iron, and the application of such prepared oxide for the absorption or separation of sulphur from certain gases.	769	27th March 1861	Jacob Geoghegan Willans.
Improvements in treating certain ores and alloys and in obtaining products therefrom.	848	6th April 1861	Jonathan Down.
Manufacturing oxygen gas and obtaining certain other products.	983	20th April 1861	James Webster.
Improvements in the treatment of certain ores containing metals and in obtaining products therefrom - - - - - -	1084	1st May 1861	Robert Laing. Israel Swindells.
An improved process for the manufacture of fluo-silicates and silicates of lead and baryta, and for the application of the same to various purposes in the arts and manufactures.	1732	8th July 1861	Thomas Cobley.
An improved process for the treatment of silicates of metallic and non-metallic bases and other silicious compounds as slags, scoriæ and such like in order to recover the said bases, and also in the production of fluo-silicic and silicic acids.	1734	9th July 1861	Thomas Cobley.
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same.	1772	15th July 1861	Thomas Cobley.
An improved process for the production or manufacture of fluo-silicates of tin, zinc and baryta, and their application as pigments for glazing, enamelling, and in the manufacture of glass.	1776	15th July 1861	Thomas Cobley.
Batteries for obtaining electric currents and the products therefrom - - - - - (*Obtaining metallic salts.*)	2298	14th Sept. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Manufacture of muriate of iron for the purification of coal gas.	2396	25th Sept. 1861	Thomas Richardson.
Apparatus for the simultaneous manufacture of white lead and vinegar. (*Communicated by Robert Rowland.*)	2597	18th Oct. 1861	Charles Denton Abel.
Manufacture of soda and sulphuric acid - -	2695	28th Oct. 1861	Emory McClintock.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALLIC SALTS, &c.—*continued.*			
Improvements in the treatment of zinc ores and in the apparatus employed therein, which improvements are also applicable to the manufacture of phosphorus. (*Obtaining oxide of zinc.*) (*Communicated by Adrien Muller.*)	2920	20th Nov. 1861	John Henry Johnson.
Manufacture of sulphate of copper and other salts of the same metal.	3076	7th Dec. 1861	Balthasar Wilhelm Gerland.
METALS.			
I.—Smelting, Extracting and Reducing Metals; Treating Ores; Refining, Tempering and Annealing Metals; Manufacture of Iron and Steel; Metallic Alloys and Substitutes.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Valves for hot blast furnaces.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
An improved method of and machinery for amalgamating and for effecting the separation of gold from earthy and other matters containing the same.	32	5th Jan. 1861	Bevan George Sloper.
Improvements in the manufacture of sulphuric acid and also in separating copper and silver from their ores.	42	7th Jan. 1861	George Dryden Mease.
An improvement or improvements in the manufacture of cast steel.	163	21st Jan. 1861	Robert Mushet.
Furnaces - - - - - - (*For melting steel, &c.*)	167	22nd Jan. 1861	Charles William Siemens. Frederick Siemens.
Manufacture of iron and steel - - -	196	24th Jan. 1861	William Longmaid.
An improvement or improvements in the manufacture of melting pots or crucibles.	213	26th Jan. 1861	Robert Mushet.
Mechanism or apparatus for crushing or breaking up ores, stones and other hard substances -	236	29th Jan. 1861	William Smyth. Matthew Wasley.
Furnaces for treating iron ores - - -	262	31st Jan. 1861	Isaac Rogers.
Improvements in the manufacture of malleable iron and steel, and in the machinery or apparatus employed in such manufacture.	275	1st Feb. 1861	Henry Bessemer.
Arrangement and construction of puddling and heating furnaces employed in the manufacture of iron and steel.	356	12th Feb. 1861	William Corbett.
The suppression of arsenical and sulphurous fumes emitted during the first operation or calcination of copper ores.	361	13th Feb. 1861	Eden Thomas Jones.
Manufacture of music plates - - -	434	21st Feb. 1861	Joshua James Watts. Samuel Harton.
An improvement or improvements in the manufacture of cast steel.	455	22nd Feb. 1861	Robert Mushet.
An improvement or improvements in the manufacture of cast steel.	473	23rd Feb. 1861	Robert Mushet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting, &c.*)—*continued.*			
Improvements in the treatment of certain ores containing metals and in obtaining products therefrom.	514	28th Feb. 1861	Robert Laing.
Improvements in the mode of and apparatus for obtaining gas and the application thereof for domestic, manufacturing and other purposes. (*For smelting metals.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	593	9th March 1861	Joseph Jacob.
Manufacture of iron	595	9th March 1861	William Henry Buckland.
An improvement in the separation of silex and silicious and other matters from steel.	685	19th March 1861	Joseph Jepson Oddy Taylor.
Preparing and annealing iron wire	726	22nd March 1861	James Graham.
Manufacture of shear steel (*Communicated by Wilhelm Spielfeld.*)	777	28th March 1861	Richard Archibald Brooman.
Machinery employed in the manufacture of iron (*See "METALS:—forging."*)	825	4th April 1861	John Gay Newton Alleyne.
Combining metals and alloys of metals for the manufacture of coins, checks, vouchers, trade marks and other useful articles, and for ornamental purposes	836	5th April 1861	Daniel Stone. Charles Comer, junior.
Improvements in treating certain ores and alloys and in obtaining products therefrom.	848	6th April 1861	Jonathan Down.
Annealing pots or pans	977	20th April 1861	Matthew Smith.
Separating or extracting silver from lead (*Communicated by Jules Frederick de La Batie and Clement Roswag.*)	1024	24th April 1861	George Henry Birkbeck.
Mode of hardening and tempering crinoline flattened wire or sheet steel. (*Communicated by Mr. Edward Goodwin.*)	1038	25th April 1861	Robert Gray.
Hardening and tempering steel	1039	25th April 1861	Samuel Fox.
Preventing the fracture of metals from crystallization.	1055	26th April 1861	John Marshall.
Improvements in the treatment of certain ores containing metals and in obtaining products therefrom	1084	1st May 1861	Robert Laing. Israel Swindells.
Treatment of copper ores (*Communicated by Joseph Marie Puistienne.*)	1117	3rd May 1861	William Edward Newton.
Purifying lead	1193	11th May 1861	David Zenner.
Improvements in the decomposition of the compounds of aluminium and in coating metals with aluminium or its alloys. (*Communicated by Louis Le Chatelier.*)	1214	13th May 1861	Thomas Bell.
Manufacture of steel (*Communicated by Messrs. Louis Joseph Frédéric Margueritte and Alfred Laloüel de Sourdeval.*)	1223	14th May 1861	William Clark.
Batteries for producing voltaic electricity together with certain metallic products.	1274	18th May 1861	Desmond Gerald Fitzgerald.
An improvement or improvements in casting ingots of steel.	1310	23rd May 1861	Robert Mushet.
Refining and purifying iron and converting the same into steel. (*Communicated by Ebenezer Green Pomeroy.*)	1345	29th May 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting, &c.*)—*continued.*			
An improved combination of metals for the production of a white alloy resisting the action of vegetable acids. (*Communicated by Mr. Benoni Ferdinand Trabuc.*)	1392	4th June 1861	Marc Antoine François Mennons.
Reverberatory and other furnaces - - -	1445	7th June 1861	Henri de Simencourt. John Kenyon Blackwell.
An improved crushing and pulverizing machine - (*For ores.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
An improvement in the manufacture of iron - -	1622	25th June 1861	James Brown.
Improvements in economizing the manufacture of sulphuric acid and in obtaining copper from ores used in such manufacture.	1695	3rd July 1861	Peter Spence.
An improved method of and machinery for amalgamating and for effecting the separation of gold from earthy and other matters containing the same.	1706	4th July 1861	Bevan George Sloper.
Treating gas in its passage from blast furnaces to the furnaces, stoves, boilers or other heating apparatus where the gas is employed.	1741	9th July 1861	Charles Cochrane.
Certain new alloys of silver with other metals, and the processes employed in their manufacture. (*Communicated by Henri Catherine de Ruolz.*)	1792	16th July 1861	Charles Denton Abel.
Manufacture of cast steel - - - -	1817	19th July 1861	Robert Mushet.
Manufacture of iron - - - - -	1863	24th July 1861	William Longmaid.
Extracting copper from its ores - - -	1869	25th July 1861	Edward Haeffely.
Manufacture of sheathing metal for ships and vessels.	1900	30th July 1861	Alexander Parkes.
Grates of reverberatory and other metallurgic furnaces. (*Communicated by Adolphe Grisard-Vanzuylen.*)	1945	5th Aug. 1861	Marc Antoine François Mennons.
Improvements in separating copper from its ores -	1958	6th Aug. 1861	Peter Spence. James Mellor.
Puddling-furnaces - - - - -	1972	8th Aug. 1861	Richard Jukes.
Machinery or apparatus for separating mineral ores, coal and other substances from impurities. (*Washing.*)	2024	14th Aug. 1861	Edmund Edwards.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Preparation, application and manufacture of peat - (*Fuel for reduction of ores.*)	2058	19th Aug. 1861	William Henry Smith.
Apparatus for melting metals - - -	2077	20th Aug. 1861	George Frederick Muntz.
An improved process and apparatus for concentrating ores or tailings, or separating pulverized mineral substances of different kinds or qualities from each other. (*Communicated by Henry Eberhard Roeder.*)	2142	28th Aug. 1861	Benjamin Browne.
Process and apparatus for the manufacture of steel (*Communicated by Jules Paulis.*)	2178	31st Aug. 1861	William Armand Gilbee.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting, &c.*)—*continued.*			
Extracting copper and silver from ores containing those metals. (*Partly communicated by Dr. Gustav Bischof, senior.*)	2197	3rd Sept. 1861	Gustav Bischof, junior.
Batteries for obtaining electric currents and the products therefrom - - - - - (*Obtaining copper.*)	2298	14th Sept. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Manufacture of castings, rods, bars, bolts, nails, rivets and sheets when alloys of copper are used.	2366	21st Sept. 1861	Alexander Parkes.
Improvements in the manufacture of steel and in the hardening of metals. (*Communicated by Joseph Théophile Luce Rousselot.*)	2370	23rd Sept. 1861	Charles Stevens.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas, and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Hardening iron and steel, and a composition or substance to be employed therein.	2489	5th Oct. 1861	Ebenezer Partridge.
Smelting copper, gold and other ores - - (*Communicated by Rowland Vounder Rodda.*)	2605	18th Oct. 1861	Hugh Macmeikan.
A new or improved manufacture of titanic pig metal or alloy of titanium and iron.	2609	19th Oct. 1861	Robert Mushet.
An improvement or improvements in collecting the inflammable gases evolved from blast furnaces.	2623	21st Oct. 1861	Josiah Timmis Smith.
An improvement or improvements in the manufacture of a certain metallic alloy.	2637	22nd Oct. 1861	Robert Mushet.
Processes or means employed for separating or extracting silver from lead. (*Communicated by Jules Frederic de la Batie.*)	2643	23rd Oct. 1861	George Henry Birkbeck.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - - - (*For calcining.*)	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein.	2664	24th Oct. 1861	James Chesterman.
The use of hydraulic power for the breaking, crushing or pulverizing of quartz, blue stone or other stone or mineral of any description, and the use of a wrought iron lever or jaw in machines for crushing quartz or any other mineral, and the use of steel teeth and steel shield pieces for the levers or jaws in such machines.	2669	25th Oct. 1861	Enoch Chambers.
Manufacture of soda and sulphuric acid - -	2695	28th Oct. 1861	Emory McClintock.
An improvement in the manufacture of spelter - -	2707	29th Oct. 1861	Frederick Bennett.
Construction of blast furnaces for smelting ores -	2735	1st Nov. 1861	George Holcroft.
An improvement or improvements in the manufacture of cast steel or of homogeneous iron.	2744	1st Nov. 1861	Robert Mushet.
Method of and apparatus for preventing the injurious effects occasioned by smoke, sulphur and the deleterious gases which escape from stacks, chimneys, calcining houses, chemical and other furnaces - - - - - -	2750	1st Nov. 1861	William Bickford Smith. William Bennetts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting, &c.*)—*continued.*			
Treating peat to render it useful for fuel and for illuminating and metallurgical purposes.	2761	2nd Nov. 1861	George Evans.
Certain improvements in the manufacture of iron -	2782	5th Nov. 1861	Samuel Griffiths.
Furnaces for reducing zinc ores - - - (*Communicated by Adolphe Charlier.*)	2787	6th Nov. 1861	Alexander Prince.
Apparatus for separating metals from their ores -	2810	8th Nov. 1861	Aristide Balthazard Bérard.
An improvement in and composition for treating iron and steel and articles manufactured thereof. (*Communicated by Alphonse Muller de la Mothe.*)	2845	12th Nov. 1861	Michael Henry.
The application of electricity in refining cast iron for the purpose of converting it into wrought iron or steel with or without the addition of other agents. (*Communicated by François Alphonse Adéodat Dufournel.*)	2850	13th Nov. 1861	William Clark.
Manufacture of iron and steel - - -	2900	18th Nov. 1861	George Parry.
Improvements in the treatment of zinc ores and in the apparatus employed therein, which improvements are also applicable to the manufacture of phosphorus. (*Communicated by Adrien Muller.*)	2920	20th Nov. 1861	John Henry Johnson.
Certain improvements in cupolas and furnaces for smelting or reducing ores and for the re-melting of pig-iron - - - - -	2925	21st Nov. 1861	John Gilloes, junior. George Hinton.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Annealing zinc blocks.*)	2944	23rd Nov. 1861	John Weems.
Machines for crushing and pounding stones, ore and other materials.	2981	27th Nov. 1861	François Frédérick Dumarchey.
Furnaces for working iron ore - - - (*Communicated by Joseph Bonne.*)	2999	28th Nov. 1861	Charles Stevens.
Improvements in the treatment of ores for the manufacture of sulphuric acid and in apparatus connected therewith, which apparatus is also applicable to the treatment of ores for separating metals therefrom.	3002	28th Nov. 1861	Peter Spence.
Manufacture of sulphate of copper and other salts of the same metal. (*And precipitating iron.*)	3076	7th Dec. 1861	Balthasar Wilhelm Gerland.
Improvements in the manufacture of iron and steel and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - - -	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes. (*See* "COATING.")	3111	12th Dec. 1861	Richard Searle.
An improvement or improvements in the manufacture of iron and puddled steel.	3116	12th Dec. 1861	Robert Mushet.
Blowers or apparatuses for superheating steam and other gases and for projecting them combined with atmospheric air upon ignited combustible matter. (*For reduction of metals.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3141	13th Dec. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting, &c.*)—*continued.*			
Apparatus for extracting gold dust from auriferous sands.	3142	14th Dec. 1861	Edward Claude Barbotte de Beaulieu.
Treatment of pyrites for the manufacture of iron -	3150	14th Dec. 1861	Emile Cajot.
Improvements in the manufacture of lead, tin and other metals or amalgamation of metals of a like nature fusible at a low temperature, into sheets of any thickness or length, and in the apparatus connected therewith.	3229	26th Dec. 1861	Jabez Jones.
II.—Casting and Moulding Metals, Moulds and Core-boxes.			
An improvement or improvements in the manufacture of cast steel.	163	21st Jan. 1861	Robert Mushet.
Core barrels for casting pipes, cylinders, retorts and other like hollow articles - - - -	194	24th Jan. 1861	Thomas Gibson. William Knighton. Henry Knighton.
Ordnance and projectiles - - - - -	216	26th Jan. 1861	Henry Bessemer.
Improvements in the manufacture of malleable iron and steel and in the machinery or apparatus employed in such manufacture.	275	1st Feb. 1861	Henry Bessemer.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
Improvements in stereotype plates and in machinery or apparatus for manufacturing the same.	349	11th Feb. 1861	Giovanni Guiseppe Aggio.
Manufacture of music plates - - -	434	21st Feb. 1861	Joshua James Watts. Samuel Harton.
Machinery or apparatus for casting bullets - -	436	21st Feb. 1861	William Watson. Alexander Watson.
Moulding wheels and other metal articles - -	521	1st March 1861	William Galloway. John Galloway.
Machinery for making bullets - - - (*Communicated by Richard Gornall and William John Hooper.*)	552	4th March 1861	William Edward Newton.
Moulding and shaping metals - - -	639	14th March 1861	James Hunter.
Combining metals and alloys of metals for the manufacture of coins, checks, vouchers, trade marks and other useful articles, and for ornamental purposes - - - - -	836	5th April 1861	Daniel Stone. Charles Comer, junior.
Apparatus for drying the moulds and cores used for iron or other castings.	957	18th April 1861	Charles Jordan.
Apparatus for embossing and taking casts or matrices for stereotype and other purposes.	1056	26th April 1861	James Dellagana.
Improvements in the manufacture of wheels and in apparatus or machinery to be employed therein.	1106	2nd May 1861	Peter Wright.
An improvement or improvements in casting ingots of steel.	1310	23rd May 1861	Robert Mushet.
Obtaining products from sea weeds - - (*Coke for ironfounders.*)	1411	4th June 1861	Edward Charles Stanford.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Casting, &c.*)—*continued.*			
Manufacture of railway sleepers	1441	7th June 1861	John Vaughan.
Apparatus for constructing moulds for casting metals.	1482	10th June 1861	Michael Hawdon.
Stereotyping	1510	12th June 1861	John Napier.
Manufacture of charcoal (*For foundries.*)	1646	27th June 1861	John Cass Smart. Adam Aitchison.
Improvements in the construction of buildings and in materials and machinery to be employed therein and therefor. (*Casting mouldings.*)	1901	30th July 1861	Matthew Allen.
Improvements in forming bends and other forms or parts of non-metallic pipes and in machinery or apparatus employed for such purposes, part of which improvements are applicable also to the formation of bends or curves in some kinds of metallic pipes	1924	3rd Aug. 1861	George Bish. James Dredge.
Manufacture of metallic tubes	2020	14th Aug. 1861	François Durand.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Construction, manufacture and mode of securing armour for the protection of ships and fortifications against projectiles.	2315	17th Sept. 1861	Francis Wrigley.
Manufacture of castings, rods, bars, bolts, nails, rivets and sheets when alloys of copper are used.	2366	21st Sept. 1861	Alexander Parkes.
Manufacture of axle boxes and bushes	2369	23rd Sept. 1861	James Henry Duley.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Apparatus for goffering or embossing stuffs in high relief.	2804	8th Nov. 1861	Henry Montucci, Ph.Dr.
Improvements in the manufacture of cast iron pipes and similar articles, and in apparatus to be used therein.	2827	11th Nov. 1861	David Yoolow Stewart.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, ship-building, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Improvements in the moulds or chills employed in casting corner blocks, dovetail grooves and other parts of metal bedsteads and other like articles, in frames for carrying such moulds, and in tubes for the pillars of bedsteads and other like articles	2919	20th Nov. 1861	Edward Peyton. William Fothergill Batho.
Ornamenting metallic and non-metallic bedsteads and other articles made principally of metallic rods or tubes	3161	17th Dec. 1861	John Bickerton Bunney. Thomas Wright.
Improvements in the wheels of railway engines and carriages and in the machinery or apparatus to be used in making the same.	3222	24th Dec. 1861	Thomas Edward Vickers.
Improvements in bomb shells and similar projectiles	3245	27th Dec. 1861	James McIntyre.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging, &c.*)—*continued.*			
III.—Forging, Rolling, Hammering, Rivetting, Bending, Welding, and Shaping Metals; Steam Hammers, Anvils.			
An improved construction of forging press or hammer. (*Communicated by John Haswell.*)	25	4th Jan. 1861	Andrew Fairbairn.
An improved clutch apparatus for transmitting motion to various kinds of machinery. (*To mills for rolling metal.*) (*Communicated by Messrs. Colas, Brothers.*)	144	18th Jan. 1861	William Edward Newton.
An improved method of manufacturing tyres for wheels, hoops and rings. (*Communicated by the Société des Forges.*)	177	22nd Jan. 1861	Richard Archibald Brooman.
Apparatus for rolling metal - - -	195	24th Jan. 1861	Daniel Joseph Fleetwood.
Piling iron for heating preparatory to re-rolling or hammering the same.	204	25th Jan. 1861	Bernard Lauth.
Construction of ships and other vessels for war purposes. (*Forming armour plates.*)	206	25th Jan. 1861	Charles Lungley.
Improvements in the manufacture of armour plates for gun boats and land batteries, and in machinery and furnaces used in the said manufacture. (*Rolling-machinery.*)	214	26th Jan. 1861	John Arrowsmith.
Ordnance and projectiles - - - - (*Making rings or hoops.*)	216	26th Jan. 1861	Henry Bessemer.
Machinery for shaping metal - - -	219	28th Jan. 1861	Charles De Bergue.
Construction of boilers employed for warming buildings. (*Welding the plates.*)	243	30th Jan. 1861	Samuel Thomas Crook.
Improved machinery or apparatus for making, forging and punching metal nuts, bolts, spikes or washers.	305	6th Feb. 1861	John Marsden.
Improved rolling-machinery for rolling iron and other metals.	333	9th Feb. 1861	Charles While.
Manufacture of certain kinds of spectacle frames - (*Stamping out.*)	451	22nd Feb. 1861	Charles Eyland.
Forges - - - - - - - (*Communicated by Martin Chretiennot, commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	499	26th Feb. 1861	John Henry Johnson.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.
Improvements in and in the mode or modes of applying and securing the metal plates of armour plated ships or vessels and other armour plated structures.	544	4th March 1861	John Coope Haddan.
Improved machinery for forging horse shoe nails, spikes and other like articles. (*Communicated by Benjamin A. Mason.*)	563	5th March 1861	Alfred Vincent Newton.
Process of cementation - - - - (*Communicated by Alexandre Lemaire.*)	564	5th March 1861	William Edward Newton.
Machinery for raising or shaping metals - -	607	12th March 1861	Thomas Foxall Griffiths.
Certain improvements in the manufacture of gun barrels.	611	12th March 1861	William Perry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging, &c.*)—*continued.*			
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile driving and other such like machines and purposes - - - -	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Machinery employed in the manufacture of iron - (*Rolling plates and bars.*)	825	4th April 1861	John Gay Newton Alleyne.
An improvement or improvements in the manufacture of shoes for horses and other beasts of draught and burden, and in the preparation of the metal to be used for this purpose.	842	5th April 1861	William Edwards.
Machinery or apparatus for forging and shaping articles of iron or other metal or material.	902	12th April 1861	Thomas Carr.
Apparatus for ventilating forges and other overheated workshops.	986	20th April 1861	Aaron Smith.
Manufacture of iron wheels - - - - (*Rolling.*)	1033	25th April 1861	Pierre Casimir Lefol.
Construction of hoops or tyres for wheels to be used on railways and tramways - - -	1060	27th April 1861	John Poole. William Milward.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.
Improvements in the manufacture of railway wheels, tires and other annular, cylindrical and hollow articles from cast steel or malleable cast iron, and in the machinery or apparatus employed therein - - - - - (*Rolling the flange.*)	1129	4th May 1861	Edward Brown Wilson. William Tijou.
Adaptation of plates of iron and other metal in the construction of dwelling-houses, fences, parts of carriages or vehicles, and in other structures or constructions. (*Bending the edges.*)	1169	8th May 1861	Philip Henry Williams.
Improvements applicable to Ryders' forging machine which render it better adapted for forging mule spindles and articles of similar form.	1195	11th May 1861	John Wareing.
Improvements in armour plates or bars for protecting ships and other structures, and in fixing the same.	1198	11th May 1861	Charles William Lancaster.
Improvements in plates to be used in ships and other structures for receiving armour plates or bars, and in the means of fixing such armour plates.	1275	18th May 1861	John Hughes.
Construction of iron ships, batteries and forts -	1289	20th May 1861	Edward Humphrys.
Manufacture of wrought iron cylinders for the construction of ordnance. (*Expanding while hot.*)	1337	29th May 1861	George Wightwick Rendel.
An improvement in the form of iron, steel, brass, copper and other metallic alloy, for making nails, spikes, bolts, screws and other similar driving articles both plain and twisted.	1369	1st June 1861	Montague Wigzell.
An improved machine or apparatus for manufacturing the covers of tin or other metal cases. (*Rolling.*)	1516	13th June 1861	Etienne Chatonet, junior.
Steam hammers - - - - -	1601	21st June 1861	William Hobson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging, &c.*)—*continued.*			
Manufacture of armour plates for defensive purposes	1781	15th July 1861	William Rigby.
Improvements in the manufacture of ships' armour plates and other heavy forgings, and in the machinery or apparatus employed therein. (*Communicated by Hyppolite Ulysse Petin and Jean Marie Gaudet.*)	1825	19th July 1861	John Henry Johnson.
Forges - - - - - - - (*Communicated by Martin Chretiennot, commonly called Chretiennot-Radet, and Pierre Leon Rodet.*)	1847	23rd July 1861	John Henry Johnson.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
Manufacture of horse shoes, boot heels, wheel tyres, rails and safes - - - - -	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
Improvements in the construction of girders, frames or other apparatus fixed or moveable, and for certain peculiar forms or sections of iron used therein.	2102	22nd Aug. 1861	William Baines.
Improvements in the construction of armour plates and in their application to ships and batteries.	2125	26th Aug. 1861	John Lyon Field.
Improvements in the manufacture of tyres for railway wheels and in the apparatus employed therein, part of the said improvements being applicable to the consolidating or rendering homogeneous iron and steel for other purposes.	2183	31st Aug. 1861	Goran Frederick Goransson.
Manufacture of armour plates for the protection of vessels of war, floating or other batteries.	2216	5th Sept. 1861	John Napier.
Machinery for rolling iron or other metals - -	2218	5th Sept. 1861	John Napier.
Manufacture of wheel tyres, hoops and other similar articles - - - - -	2226	6th Sept. 1861	William Allott. John Thelwall.
Manufacture of crank shafts and crank axles and other similar articles - - -	2227	6th Sept. 1861	William Allott. John Thelwall.
Machinery or apparatus for the manufacture of horse shoe and other nails. (*Communicated by Charles Alexandre Louvrier.*)	2319	17th Sept. 1861	George Davies.
Machinery for manufacturing shoes for horses and other animals. (*Communicated by Edward Adams Cutler.*)	2360	20th Sept. 1861	George Tomlinson Bousfield.
Manufacture of castings, rods, bars, bolts, nails, rivets and sheets when alloys of copper are used.	2366	21st Sept. 1861	Alexander Parkes.
Improvements in the manufacture of metal tubes for bedsteads and other purposes, and in the machinery employed therein.	2430	28th Sept. 1861	Charles Comer, junior.
An improvement in the manufacture of umbrellas and parasols, and improvements in machinery to be used in the manufacture of umbrellas and parasols. (*Raising top notches.*) (*Partly communicated by Charles Augustus Van Kirk.*)	2466	3rd Oct. 1861	Thomas Warwick.
Improvements in hammers to be worked by steam or other elastic fluid and in anvils for the same.	2519	9th Oct. 1861	John Norman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging, &c.*)—*continued.*			
Improvements in the manufacture of cast steel and other metal tubes, and in the machinery or apparatus employed therein, parts of which improvements are applicable to the manufacture of gun barrels and ordnance and to the rifling of same - - - - - - (*Drawing and rolling.*)	2533	10th Oct. 1861	Louis Christoph. William Hawksworth. Gustavus Palmer Harding.
Apparatus for bending iron rails or bars - - (*Communicated by Henri Nicolas Rogé.*)	2538	10th Oct. 1861	William Clark.
Manufacture of railway fastenings and a mode of preparing rails and fish plates to receive them.	2541	11th Oct. 1861	Robert Richardson.
Steam hammers - - - - -	2611	19th Oct. 1861	Thomas Fearnley.
Improved machinery for the manufacture of metal tubes and cylinders, which is also applicable to other useful purposes - - - (*Rolling bars.*)	2614	19th Oct. 1861	James Bourne. Edward Kidd.
Machinery or apparatus for bending iron - -	2631	21st Oct. 1861	John Toward.
Improvements in armour plates for ships and in securing the same to the sides of a vessel.	2633	21st Oct. 1861	John Toward.
Construction of iron vessels and iron plated ships of war.	2644	23rd Oct. 1861	Alfred Bevan.
Certain improvements in steam hammers and in valves applicable to the same and to other steam engines.	2772	5th Nov. 1861	Robert Wilson.
An improvement or improvements in the manufacture of bayonets. (*Stamping.*)	2774	5th Nov. 1861	Edgar Brooks.
Improvements in the construction of boats, barges, buoys, and other like structures of metal, and in machinery employed therein - - - (*Stamping from metal plates.*)	2788	6th Nov. 1861	William Ramsell.
Manufacture of hoes, adzes or other similar articles	2816	9th Nov. 1861	Sam Hague.
Means or apparatus for rolling metals - -	2898	18th Nov. 1861	Guillaume Prodon-Bonneton. Marthe Guillaume Prodon.
Mode of manufacturing and constructing wrought iron ordnance. (*Rolling and welding.*)	2918	20th Nov. 1861	Lynall Thomas.
Improvements in making circular blooms such as are used in the manufacture of tyres and for other purposes. - - - -	2937	22nd Nov. 1861	Charles Bartholomew. John Heptinstall.
Improvements in the construction of parts of electric telegraph bell apparatus, and in apparatus used in making the same. (*Stamping and compressing tools.*) (*Communicated by Mr. Pierre Désiré Prud'homme.*)	2991	27th Nov. 1861	William Clark.
Improvements in the manufacture of railway wheels and in apparatus to be used therein. (*Bending spoke bars, welding and shaping rims of spokes.*)	3000	28th Nov. 1861	John Martin Rowan.
Certain improvements in rails for permanent ways - (*Rolling.*)	3009	29th Nov. 1861	Thomas Ellis.
Use, application and manufacture of iron or steel as armour for ships or batteries.	3068	7th Dec. 1861	George Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging, &c.*)—*continued.*			
Improvements in the manufacture of iron and steel and in the machinery, apparatus or furnaces used therein and for the production of gas to be employed in such manufacture - -	3108	11th Dec. 1861	William Henry Tooth. William Yates.
Railway wheels and tyres - - - (*Piling blooms.*)	3117	12th Dec. 1861	William Smith Longridge.
Improvements in armour and in making and applying the same for protecting wood and iron ships of war and batteries. (*See* "WIRE.")	3182	19th Dec. 1861	Willam Tate.
Improvements in apparatus for the manufacture of cast steel mill chisels and other taper tools and files.	3186	20th Dec. 1861	William Makin.
Improvements in the manufacture of lead, tin and other metals or amalgamation of metals of a like nature fusible at a low temperature, into sheets of any thickness or length, and in the apparatus connected therewith.	3229	26th Dec. 1861	Jabez Jones.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services.	3250	28th Dec. 1861	Arthur Warner.
See also "NAILS."			
IV.—Cutting, Planing, Punching, Boring and Rifling Metals.			
Improved machinery or apparatus for making, forging and punching metal nuts, bolts, spikes or washers.	305	6th Feb. 1861	John Marsden.
Improvements in stereotype plates and in machinery or apparatus for manufacturing the same. (*Planing the bearing surfaces.*)	349	11th Feb. 1861	Giovanni Guiseppe Aggio.
A method of simultaneously marking and piercing or perforating plates of metal, cardboard, paper and other material employed in looms for weaving figured fabrics. (*Communicated by Michel Alcan.*)	561	5th March 1861	Emile Alcan.
Machinery or apparatus for drilling, boring and cutting metals.	660	15th March 1861	Stanhope Perkins.
Apparatus for cutting and shaping metals - - (*Communicated by Mr. Aaron Bonehill.*)	715	21st March 1861	William Clark.
Certain improvements in fire-arms and in the method of rifling the barrels of the same.	773	28th March 1861	Perceval Moses Parsons.
Machines for drilling and boring metals - -	920	15th April 1861	Andrew Shanks.
Machines for fluting rollers and for shaping metals	976	20th April 1861	William Ryder. Thomas Ryder.
A new or improved hand drill for drilling wood, metal and other materials. - - - (*Communicated by William Kimberley.*)	1122	4th May 1861	George Warde Reynolds. Samuel Grigg Taylor.
Improvements in projectiles and in fire-arms for discharging the same.	1229	14th May 1861	Robert William Woolcombe.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting, &c.*)—*continued.*			
Improvements in the manufacture of fluted rollers for preparing and spinning fibrous materials, and in machinery for the purpose. (*Planing and milling.*)	1298	22nd May 1861	Joseph Bleasdale.
Improvements in the manufacture of portable or traction steam engines, and in apparatus for cutting joints, heads of connecting rods and other articles - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Machinery or apparatus for cutting or dividing metal or other sheets or plates.	1371	1st June 1861	Thomas Coradine.
Punching-machines - - - -	1377	1st June 1861	Howarth Stansfield.
Certain improvements in machines for planing, boring and turning - - - -	1584	20th June 1861	James Fletcher. John William Fuller.
An improved mode of treating tubes used for posts for metallic bedsteads and other purposes, and in the machine for producing the same, and which said machine is also applicable for cutting out and piercing articles of sheet metal such as washers, metallic bucket ears and other such like articles - - - - -	1672	1st July 1861	Ferdinand Potts. Richard Cox.
Machinery or apparatus for turning and planing metals, the tool advancing sideways and cutting in an oblique position.	1854	24th July 1861	Joseph Badard.
A simultaneous manifold drilling machine - -	1895	30th July 1861	Peter Hall.
A new or improved transportable machine or apparatus for rifling cannon.	1933	3rd Aug. 1861	Josiah Vavasseur.
Improvements in apparatus for drilling and tapping gas and water mains and pipes, and in preventing leakage therefrom.	2071	20th Aug. 1861	John Somerville.
An improvement in the manufacture of umbrellas and parasols, and improvements in machinery to be used in the manufacture of umbrellas and parasols. (*Grooving notches.*) (*Partly communicated by Charles Augustus Van Kirk.*)	2466	3rd Oct. 1861	Thomas Warwick.
Improvements in the manufacture of metal pens and holders, in tools employed therein, and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
Improvements in the manufacture of cast steel and other metal tubes and in the machinery or apparatus employed therein, parts of which improvements are applicable to the manufacture of gun barrels and ordnance, and to the rifling of same	2533	10th Oct. 1861	Louis Christoph. William Hawksworth. Gustavus Palmer Harding.
Machinery for fluting rollers - - -	2698	28th Oct. 1861	William Ryder. Thomas Ryder.
Improvements in fire-arms and in cartridges - - (*Rifling.*)	2731	31st Oct. 1861	Brownlow Hugh Mathew.
Mode of combining together and securing to the sides of navigable vessels and water batteries armour plates of iron or steel. (*Rebating and boring.*)	2780	5th Nov. 1861	John Beresford Love.
Manufacture of hoes, adzes or other similar articles	2816	9th Nov. 1861	Sam Hague.
An improved instrument for cutting pipes and bars of metal.	2868	14th Nov. 1861	William Heap.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting, &c.*)—*continued.*			
Improvements in the construction of parts of electric telegraph bell apparatus, and in apparatus used in making the same. (*Punch.*) (*Communicated by Mr. Pierre Désiré Prud'homme.*)	2991	27th Nov. 1861	William Clark.
An improved method of rifling or grooving the barrels of fire-arms and ordnance.	3166	18th Dec. 1861	Robert Scott,
V.—Plating and Coating Metallic Surfaces with Metal; Finishing and Ornamenting Metallic Surfaces.			
Certain improvements in coating metals and alloys of metals - - - - - -	43	7th Jan. 1861	William Bagley. William Mincher.
Certain improvements in coating metals and alloys of metals - - - - - -	44	7th Jan. 1861	William Bagley. William Mincher.
An improvement or improvements in coating sheets or plates of iron with lead or tin or alloys of lead and tin - - - - - - -	317	8th Feb. 1861	Thoms Banks. Thomas Morgan.
Telegraphic cables - - - - -	579	7th March 1861	Thomas William Evans, M.D.
An improved mode of preventing corrosion in boiler tubes. (*Coating the tubes with metal.*)	686	19th March 1861	Arthur Wall.
Improved means of coloring enamelled leather, leather cloth, enamelled metal and other enamelled surfaces. (*Communicated by Adrien Jacques Basset.*)	722	22nd March 1861	Richard Archibald Brooman.
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.
Preventing the fracture of metals from crystallization. (*Coating.*)	1055	26th April 1861	John Marshall.
Electric telegraphs - - - - -	1113	3rd May 1861	Owen Rowland.
Improvements in the decomposition of the compounds of aluminium and in coating metals with aluminium or its alloys. (*Communicated by Louis Le Chatelier.*)	1214	13th May 1861	Thomas Bell.
An improvement or improvements in producing designs in enamel on articles of brass and the alloy called German silver.	1259	17th May 1861	Samuel Tearne.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Electro-plating.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Improvements in the manufacture and ornamentation of metallic chimney-pieces or mantel-pieces and in the ornamentation of metallic stoves and fire-places. (*Affixing ornamental paper.*)	1340	29th May 1861	Henry Crichley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating, &c.*)—*continued.*			
Manufacture of a material or composition for cleaning and polishing metals and glass. (*Communicated by Mr. Alexandre Cochet.*)	1468	8th June 1861	William Clark.
Construction of electrical piles (*For galvano-plastic work.*)	1503	12th June 1861	Jean Armand Callaud.
Electro-magnetic engines (*For electrotyping.*) (*Communicated by George Beardslee.*)	1567	18th June 1861	William Edward Newton.
Manufacture of tin and terne-plates	1774	15th July 1861	Rees Taylor. Thomas Price.
Ornamenting or decorating articles of iron (*Communicated by Jean Baptiste Haffner and Jean Pierre Haffner.*)	1848	23rd July 1861	Ferdinand Hirschfeld.
New or improved machinery to be used in the manufacture of tin plates and terne plates, and iron plates coated with lead	1868	25th July 1861	Robert Kelly. John Shakespeare.
Producing on porcelain and other ceramic products, on glass, Venetian enamels and on metallic surfaces designs in colours and in gold, silver and other metals. (*Communicated by Franz Kosch.*)	2009	13th Aug. 1861	Joseph Jacob.
Coating wire with copper, silver, gold or other metal or alloy in order to prevent oxidation. (*Communicated by Martin Miller.*)	2023	14th Aug. 1861	Richard Archibald Brooman.
Spring balances or weighing-apparatus (*Galvanising the cases.*)	2025	14th Aug. 1861	Thomas Silvester.
An improved mode of manufacturing gold dials (*Electrotyping.*)	2040	15th Aug. 1861	Julian Faucherre.
An improved method of coating the interior surface of lead and lead composition pipes with tin or its alloys.	2213	5th Sept. 1861	Frederick Bennett.
Means of producing raised chasing on copper, silver and Britannia metal, by the application of pressure	2239	7th Sept. 1861	John Carpindale. Thomas Middleton.
Means of fastening or securing the handles of table knives and forks, daggers and other similar articles. (*Tinning the tang.*)	2355	20th Sept. 1861	James Burnand.
Covering crinoline wire and other like substances (*See* "WEAVING.")	2479	4th Oct. 1861	John Beesley.
Producing or delineating ornamental lines and figures on metal and other surfaces.	2746	1st Nov. 1861	Andrew Smith.
Electroplating or depositing metals (*Communicated by Jabez Ellis Walcott.*)	2784	5th Nov. 1861	George Tomlinson Bousfield.
Improvements in the manufacture of metallic tubes and in coating or plating metals.	2944	23rd Nov. 1861	John Weems.
The application of certain electro-deposits to the coating or finishing of the stretchers, ribs and other metal portions of umbrellas and parasols	3074	7th Dec. 1861	Thomas Fearn. Thomas Cox, junior.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
Submarine electric telegraphic cables	3170	18th Dec. 1861	William Dicey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating, &c.*)—*continued.*			
An improvement in cylinders used in printing calicoes and other textile fabrics. (*Communicated by Henry Kündig George Bertschy and Joseph Porges de Portheim.*)	3203	20th Dec. 1861	Dudley Charles Le Souëf.
Improvements in the method of treating steel for the manufacture of crinoline.	3236	26th Dec. 1861	Henry Dawes.
METERS FOR GAS AND FLUIDS.			
Construction of rotary engines (*Or water meters.*)	10	2nd Jan. 1861	John Taylor. Meshach Britton Cooper.
Gas meters	80	11th Jan. 1861	William Henry Moran.
Means or apparatus for measuring gas (*Communicated by William Richards.*)	749	25th March 1861	William Brookes.
Apparatus for measuring water and other liquids	844	5th April 1861	George Hawksley.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
Wet gas meters	979	20th April 1861	James Pinchbeck.
Construction of liquid meters (*Communicated by Gottfried Kober.*)	989	20th April 1861	Alfred Vincent Newton.
Gas meters	1052	26th April 1861	William Cowan.
Gas meters and pneumato-meters	1365	31st May 1861	George Glover.
Wet gas meters	1414	5th June 1861	Edmund Smith.
Dry gas meters (*Communicated by Joseph A. Sabbaton.*)	1581	19th June 1861	William James Harris.
Wet gas meters	1669	29th June 1861	William Livesey.
Fluid meters	1670	1st July 1861	William Dingwall.
An improved frictionless bearing for gas-meters	1739	9th July 1861	William Coulson Parkinson.
Wet gas meters	1912	1st Aug. 1861	Henry Shaw.
Compensating gas meters	2057	19th Aug. 1861	Edmund Small Cathels.
Improvements in the treatment of gas and the apparatus employed therein with a view to its more accurate measurement in wet gas meters.	2221	5th Sept. 1861	John Reid.
Improvements applicable to gas meters	2415	27th Sept. 1861	George Smith.
Apparatus for measuring and regulating the pressure of gas.	2516	9th Oct. 1861	William Smith.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
Apparatus for measuring fluids	2635	22nd Oct. 1861	Herbert Frost.
Water meters	2663	24th Oct. 1861	William Dicks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METERS, &c.—*continued.*			
Water meters - - - - - - (*Communicated by Messrs. Frank Grant Johnson, William Thompson Barkley Milliken and Edmund Jones.*)	2769	4th Nov. 1861	William Clark.
Gas meters - - - - - - -	2830	11th Nov. 1861	James John Shedlock.
Wet gas meters - - - - - - -	3052	5th Dec. 1861	James Cochrane.
MINING; BORING AND BLASTING ROCK; RAISING COALS, &c. FROM MINES; DRAINING, LIGHTING AND VENTILATING MINES.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Valves for ventilating mines.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Shutting off the steam and operating upon the breaks of engines employed in lowering into and lifting from mines or pits.	203	25th Jan. 1861	Jesse Law.
Engines for the extraction of the produce of mines and new arrangement of the ropes for suppressing all dead weight.	265	1st Feb. 1861	Théodore Lemielle.
Drilling, boring or excavating rock or other earthy substances - - - - -	373	13th Feb. 1861	John Poole. James Wright. Frederick Shand Hemming. George Searby.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
Safety apparatus for lighting mines - -	438	21st Feb. 1861	Herbert Panmure Ribton.
Pumping engines - - - - - - (*For raising water from mines.*)	453	22nd Feb. 1861	Andrew Barclay.
India-rubber springs for railway and other uses - (*For mine cradles.*)	613	13th March 1861	George Spencer.
Moulding and shaping metals - - - (*Wheels for mine carriages.*)	639	14th March 1861	James Hunter.
Safety fuses for mining and other purposes - -	719	22nd March 1861	Joseph Victor. James Polglase.
Improvements in hewing or working coal and other minerals and in the apparatus employed therein	795	30th March 1861	Robert Ridley. Joseph Rothery.
A new or improved steam brake - - -	821	3rd April 1861	Thomas Wright. Hugh Wright.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
Apparatus used in getting coal - - -	1302	22nd May 1861	George Edmond Donisthorpe.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*Application to colliery cages.*)	1419	6th June 1861	John Bailey. William Henry Bailey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Pillars for supporting the roof in coal and other mines.	1432	6th June 1861	William Oliver Johnston.
Apparatus for creating or increasing air draughts in flues or other channels for ventilation and other purposes.	1435	6th June 1861	Edward Hewett.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bake-houses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
An improved winding apparatus particularly adapted for steam ploughing, winding at pits, quarries and other such like purposes - -	1821	19th July 1861	William Savory. Paul Haines Savory.
Apparatus to prevent over winding at coal and other mines - - - - - - -	2175	31st Aug. 1861	John Copple. Edward Copple.
Improvements in the mode of and apparatus for obtaining and treating hydrogen gas and the application thereof to various purposes, parts of which improvements are applicable to the manufacture of iron and steel. (*Application of gas for blasting.*) (*Communicated by Carl Preisenhammer and Carl Weniger.*)	2377	23rd Sept. 1861	Joseph Jacob.
Manufacture of safety fuzes - - - - (*For blasting.*)	2433	30th Sept. 1861	John Solomon Bickford. George Smith.
An improved miners' lamp - - - -	2512	8th Oct. 1861	Isaac Evans, junior.
Improvements in lifting or hoisting apparatus whereby to ensure the safety of the cage or article lifted when a rope or chain breaks or is overwound, and in hoists generally as applied to mills, warehouses and other buildings - -	2579	16th Oct. 1861	Joseph Lister. David Myers.
Gunpowder suitable for blasting - - -	2679	25th Oct. 1861	James Lobb.
Boring apparatus such as is used for mining purposes.	2813	9th Nov. 1861	George Simpson.
Safety lamps - - - - - - - (*For mines.*) (*Communicated by Mr. Pierre Dernoncourt.*)	2829	11th Nov. 1861	William Clark.
Apparatus for ventilating coal or other mines or other underground excavation.	2875	15th Nov. 1861	John Nixon.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors - - - - - - - (*Pumping water out of mines.*)	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
Machinery or apparatus to be used in the working, "winning" or mining of coal, clay, shale and other minerals or earthy matters.	2902	19th Nov. 1861	James Hemingway.
Ground or earth screws - - - - - (*See* "PILE DRIVING.")	2914	20th Nov. 1861	Frederick Johnson.
"Davy" or other safety lamps for miners - -	2922	21st Nov. 1861	James Parkinson. Charles Henry Minchin.
Apparatus and machinery for working coal and other mines - - - - - -	2975	26th Nov. 1861	William Firth. Robert Ridley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Machinery and apparatus for working coal and other mines - - - - -	2977	26th Nov. 1861	George Edmund Donisthorpe. William Firth. Robert Ridley.
Machinery or apparatus for boring and winding purposes.	2987	27th Nov. 1861	Andrew Barclay.
Machines for boring holes in rocks and other hard substances.	3025	3rd Dec. 1861	Thomas Wright Gardener Treeby.
Certain improvements in winding or driving drums or pulleys - - - - -	3029	3rd Dec. 1861	James Burrows. Joseph Dougan.
The use of aluminium for the construction of mathematical instruments used for geometrical drawing, surveying and nautical purposes, and improvements connected therewith. (*Mining-dials.*)	3092	10th Dec. 1861	William Ford Stanley.
Improved apparatus for boring rocks and other mineral substances. (*Communicated by Emanuel Lisbet.*)	3271	31st Dec. 1861	William Edward Newton.
MIXING, MASHING.			
Apparatuses for mashing malt - - -	778	28th March 1861	William Sorrell.
Combining or mixing various colours of wool or other fibrous substances in the preparation of yarns for textile fabrics.	1476	10th June 1861	John Oldroyd.
Apparatus for beating eggs and for mixing or agitating other fluids, compounds or matters.	1596	21st June 1861	George Turner.
Machinery or apparatus for working coal, iron stone or other minerals.	1983	9th Aug. 1861	James Hemingway.
Apparatus for beating eggs and for mixing or agitating other fluids, compounds or matters.	2400	26th Sept. 1861	Thomas Bentley.
Mashing-attemporators - - - - -	2435	30th Sept. 1861	Joseph Lush.
An improved machine for mixing, mincing and pounding.	2493	5th Oct. 1861	James Turner.
Improved machinery for mashing malt - -	2503	7th Oct. 1861	James Edward John Sansum.
Preparing and treating gutta-percha and india-rubber.	2800	7th Nov. 1861	William Albert Shepard.
Improvements in the preparation and treatment of vegetable fibres the better to adapt them for combining, working up and dyeing with different fibres such as silk, wool, cotton and others, and in apparatus used in such treatment or preparation.	3046	4th Dec. 1861	Charles Samuel Henry Hartog.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER MACHINES; OBTAINING MOTIVE-POWER.			
I.—Air, Gas and Wind Engines and Mills; Pneumatic Motive-power.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Construction of air or gas engines - - - (*Communicated by John Cleves Symmes.*)	17	3rd Jan. 1861	Alfred Vincent Newton.
Machinery or apparatus for obtaining motive-power (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Improvements in generating burning gases to be applied as a motive-power, and in apparatus for the same.	166	21st Jan. 1861	Jean Baptiste Pascal.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Improvements in the heating and cooling surfaces of engines propelled by aëriform fluids. (*Communicated by Auguste Casimir Lehot.*)	338	11th Feb. 1861	Marc Antoine François Mennons.
Obtaining motive-power - - -	771	28th March 1861	Bartholomew Brittain.
Improvements in coining-machinery and in apparatus employed for regulating the expansion of elastic fluids. (*Expansion valve.*)	862	8th April 1861	Henry Wollaston Blake.
Improved arrangement of engine for obtaining and applying motive-power - - -	922	15th April 1861	James Smith. Sydney Arthur Chease.
Construction of machinery or apparatus for obtaining motive-power.	975	19th April 1861	John Gjers.
An improved wind motive-power engine - -	1210	13th May 1861	Pierre Chardemite.
Obtaining and applying motive-power by aëro-hydraulic means.	1224	14th May 1861	Thomas Charles Boutet.
Improvements in obtaining motive-power and in apparatus employed therein.	1558	18th June 1861	Richard Fell.
A new or improved construction of caloric engines (*Communicated by Nicolas de Telescheff.*)	1633	26th June 1861	Marc Antoine François Mennons.
Improvements in engines for obtaining motive-power by the elastic force of steam and air combined, parts of which improvements may be employed for sounding steam whistles. (*Communicated by Robert Rogers.*)	1702	4th July 1861	William Edward Newton.
Construction of steam-engines, air engines and pumps.	1794	17th July 1861	Andrew William Harnett.
Hot air engines - - - - - -	1818	19th July 1861	Philander Shaw.
Engines for obtaining motive-power by an explosive mixture of inflammable gases and air. (*Communicated by Francisque Million.*)	1840	22nd July 1861	William Edward Newton.
Self-acting and inexhaustible hydraulic and atmospheric motive-power engines.	1969	8th Aug. 1861	Nicholas Doran Proby Maillard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Improvements in compressing and rarefying atmospheric air, with machinery for applying the same to obtain a motive-power, part of which is applicable for cooking purposes.	2278	13th Sept. 1861	Richard Fell.
Construction of engines to be worked by steam, air or gases - - - - - -	2455	2nd Oct. 1861	James Davis. Thomas Evans.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
Apparatus for obtaining motive-power - -	2589	17th Oct. 1861	Thomas Edward Merritt.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills.	2599	18th Oct. 1861	William Streather.
Engines to be propelled by compressed atmospheric air or steam.	2625	21st Oct. 1861	Francis Alton Calvert.
A new mode of and apparatus for producing and obtaining an hydro-pneumatic motive-power.	2696	28th Oct. 1861	Bartolomeo Predavalle.
Construction of air engines or air motors - -	2787	7th Nov. 1861	Theodore Schwartz.
Rotary engines - - - - - - (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Improved means of rendering steam tight the opening for the passage of the piston-rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus, for the rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes, and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Brooman.
Improved apparatus for obtaining motive-power from explosive compounds. (*Communicated by Eugène Barsanti and Felix Matteucci.*)	3270	31st Dec. 1861	William Edward Newton.
See also "GOVERNORS."			
II.—Steam-engines. (*Stationary, Locomotive and Marine.*)			
An improved slide valve - - - - - (*Communicated by Jean Baptiste Edouard Plainemaison.*)	4	1st Jan. 1861	Michael Henry.
Construction of rotary engines - - - (*Motive-power engines.*)	10	2nd Jan. 1861	John Taylor. Meshach Brittan Cooper.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Obtaining motive-power - - - - (*Communicated by Monsieur Main-Guillon.*)	31	5th Jan. 1861	William Edward Gedge.
Steam engines - - - - - -	52	9th Jan. 1861	Daniel Adamson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.— *continued.*			
Rotary engines applicable to be worked by water, steam or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Traction engines - - - - - -	79	11th Jan. 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Improved apparatus for regulating the flow of gas, part of which is applicable to the valves of steam engines. (*Communicated by Mr. D. H. Williams.*)	95	12th Jan. 1861	Elijah Freeman Prentiss.
Machinery or apparatus for obtaining motive-power. (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Steam-engines and the machinery and apparatus connected therewith.	111	15th Jan. 1861	John Frederick Spencer.
Improvements in screw propellers and in machinery or apparatus for actuating the same.	114	15th Jan. 1861	Robert Wilson.
An improved device for balancing slide valves of steam-engines. (*Communicated by Andrew Buchanan and Peter Zeglio.*)	157	19th Jan. 1861	William Clark.
An improved induction and eduction valve for steam-engines. (*Communicated by Thomas Goodrum.*)	186	23rd Jan. 1861	Alexander Prince.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor; and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Steam-engines - - - - - -	228	28th Jan. 1861	James Alfred Shipton.
An improved construction of motive-power engine - (*Communicated by W. H. C. Voss.*)	272	1st Feb. 1861	Alfred Vincent Newton.
Pumping-engines - - - - - -	453	22nd Feb. 1861	Andrew Barclay.
Mode of applying engine power to wheels and other like instruments employed in producing locomotion whether by land or water.	485	25th Feb. 1861	John Barling.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given - -	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Pistons for pumps, steam-engines or other purposes. (*Communicated by Narcisse Ponche Joseph Scellier and Marie Pierre André Brasseur.*)	559	5th March 1861	George Henry Birkbeck.
Improvements in the pistons of steam-engines and in the buckets and plungers for pumps.	573	6th March 1861	Joseph Hodgson.
Apparatus for lubricating the piston rods, pistons and cylinders of steam-engines and other frictional surfaces of machinery - - -	616	13th March 1861	Benjamin Grundy. Samuel Andrew.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Improvements in street railways and railways on common roads, and in locomotive engines and carriages for the said railways.	676	18th March 1861	John Arrowsmith.
Steam-engines - - - - - - (*Adapting for screw propulsion.*)	724	22nd March 1861	Edward Humphrys.
Steam-engines and boilers - - - -	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in and connected with steam-engines	759	26th March 1861	Thomas Davison. Robert Paterson.
Machines worked by concentrated power - -	770	28th March 1861	François Chevillard.
Improvements in steam-engines and boilers and in apparatus connected therewith.	786	30th March 1861	John Cass.
Improvements in coining-machinery and in apparatus employed for regulating the expansion of elastic fluids. (*Valve applicable to steam-engines.*)	862	8th April 1861	Henry Wollaston Blake.
Condensers - - - - - - -	880	10th April 1861	Andrew Lamb.
Improvements in steam-engines and in boilers for the same.	890	11th April 1861	William Bury.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
Construction of machinery or apparatus for obtaining motive-power.	975	19th April 1861	John Gjers.
Steam and other engines - - - -	987	20th April 1861	George Augustus Huddart. Joseph Durham Erskine Huddart.
Steam-engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
Steam-engines and apparatus connected therewith -	1064	27th April 1861	Thomas William Miller.
Steam-engines - - - - - -	1071	29th April 1861	James Mash.
Railway carriages and locomotive engines - -	1138	6th May 1861	William Johnson.
Springs for rail-road cars and for carriages, and for many other purposes for which springs are used or required. (*For steam-engines.*)	1245	16th May 1861	Alexander T. Watson.
An improved machine for applying steam in a manner to cause direct rotation. (*Communicated by Messrs. Antonio Grande, Giovanni Battista Olivieri and Lorenzo Mongiardino.*)	1256	16th May 1861	Bernard Hudson.
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Tractomotives or engines for running upon earth or on common roads. (*Communicated by Mr. Simon Stevens.*)	1279	18th May 1861	Benjamin Franklin Stevens.
Construction of locomotive engines - -	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
Improvements in the manufacture of portable or traction steam-engines and in apparatus for cutting joints, heads of connecting rods and other articles - - - - - -	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Improvements in implements for pulverizing, ploughing and grubbing land, and in applying motive-power for working agricultural implements, parts of which improvements are applicable to condensing-engines	1402	4th June 1861	James Lamb Hancock. Frederick Lamb Hancock.
Valves for steam and other engines	1474	10th June 1861	David Rollo.
Rotary engines	1555	18th June 1861	James Miller. Henry Edward Skinner.
Steam-engines and machinery for giving motion to agricultural implements and other machines.	1569	18th June 1861	Joseph Edward Kirby.
Improvements in furnaces, boilers and condensers of steam-engines, part of such improvements being applicable to other purposes.	1572	19th June 1861	John Louch.
Locomotive engines	1578	19th June 1861	Joseph Faulding.
An improved piston	1602	21st June 1861	William Hobson. Thomas Cavill.
An improved method of supporting diagonal condensing and other steam-engines.	1643	27th June 1861	William McNaught.
An improved traction engine and apparatus applicable for the cultivation of land.	1688	3rd July 1861	John Simonton.
Steam-engines and the machinery and apparatus connected therewith.	1693	3rd July 1861	John Frederick Spencer.
Improvements in engines for obtaining motive-power by the elastic force of steam and air combined, parts of which improvements may be employed for sounding steam whistles. (*Communicated by Robert Rogers.*)	1702	4th July 1861	William Edward Newton.
Obtaining motive-power (*Communicated by Monsieur Main-Guillon.*)	1710	5th July 1861	William Edward Gedge.
Machinery for obtaining and applying motive-power.	1727	6th July 1861	Elias Robison Handcock.
Traction engines	1744	10th July 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Rotary steam-engines and pumps	1746	11th July 1861	George Weston. James Weston.
Apparatus and fittings connected with steam-engines and boilers.	1750	11th July 1861	James Farron.
Locomotive engines and trains	1757	12th July 1861	William Bridges Adams.
Improvements in lubricating those parts of steam-engines acted on by the steam, and in apparatus for the same, which said apparatus can be used for other purposes	1763	13th July 1861	Isaac Beamish. Noah Beamish.
An improved combined locomotive engine and carriage. (*Communicated by Heinrich Ehrhardt.*)	1780	15th July 1861	Otto John Theodore Gössell.
Construction of steam-engines, air-engines and pumps.	1794	17th July 1861	Andrew William Harnett.
Steam-engines, boilers, furnaces and apparatus applicable thereto	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Slide valves	1803	17th July 1861	James Trigwell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Improvements in apparatus for the condensation of steam in marine engines, and in the particular application of parts thereof to the ship, (*Communicated by William Lighthall and Albert Nicholson Chrystie.*)	1849	23rd July 1861	William Clark.
Steam-engines - - - - -	1867	25th July 1861	Daniel Spink.
Apparatus for obtaining and applying the motive-power of steam.	1920	2nd Aug. 1861	Frederick William Turner.
Slide valves to regulate or stop the flow of water, steam or other fluid.	1939	5th Aug. 1861	Hermann ChristianMeyer.
Steam-engines and boilers - - - -	1979	8th Aug. 1861	Henry Kinsey.
Certain improvements in steam-engines - -	2017	14th Aug. 1861	Edward Alexander Rippingille.
An improvement in surface condensers - -	2056	19th Aug. 1861	George Thomas Selby.
Valves of steam-engines - - - -	2062	20th Aug. 1861	Benjamin Hargreaves. John Hargreaves.
An improved steam mill or apparatus for transmitting motive-power. (*Communicated by Charles Halphen.*)	2068	20th Aug. 1861	Richard Archibald Brooman.
Arrangement and combination of high and low pressure steam-engines.	2131	27th Aug. 1861	Zerah Colburn.
Improvements in traction and locomotive engines -	2296	14th Sept. 1861	George Hawksley.
Traction engines - - - - -	2321	17th Sept. 1861	Joseph Lee. Benjamin Dutton Taplin
Valves of steam and other motive engines - -	2329	18th Sept. 1861	Alfred James Beer.
Certain improvements in the application of steam power.	2389	25th Sept. 1861	Joseph Musgrave.
Apparatuses for letting off water from and for admitting oil or other lubricating matter into steam cylinders. (*Communicated by Isidore Duballe.*)	2392	25th Sept. 1861	Richard Archibald Brooman.
Certain improvements in steam-engines and in valves for steam and other fluids.	2450	2nd Oct. 1861	James Hesford.
Construction of engines to be worked by steam, air or gases - - - - -	2455	2nd Oct. 1861	James Davis. Thomas Evans.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
Certain improvements in steam-engines - -	2463	3rd Oct. 1861	John Charles Dickinson.
Condensing-apparatus - - - -	2502	7th Oct. 1861	George Kelson Stothert.
Improved packing for engines and machinery -	2537	10th Oct. 1861	William Payne. John Burgum.
Condensers and condensing-apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2543	11th Oct. 1861	William Edward Newton.
Marine steam-engines and boilers - -	2558	14th Oct. 1861	William Macnab.
Condensers and condensing-apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2569	15th Oct. 1861	William Edward Newton.
Apparatus for obtaining motive-power - -	2589	17th Oct. 1861	Thomas Edward Merritt.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &C.—*continued.*			
Engines to be propelled by compressed atmospheric air or steam.	2625	21st Oct. 1861	Francis Alton Calvert.
Improvements in machinery for digging and cultivating the soil, and in steam-engines connected therewith and for other agricultural purposes.	2647	23rd Oct. 1861	John William Wilson.
Improvements in traction engines and wheels and in carriages to be drawn by traction engines, which improvements in wheels are applicable to common road carriages generally.	2655	23rd Oct. 1861	John Marshall.
Condensation of steam by surface contact - -	2708	29th Oct. 1861	William Holland Furlonge.
Steam-engines and boilers - - - (*Communicated by Henry Giffard.*)	2749	1st Nov. 1861	Michael Henry.
Certain improvements in steam hammers and in valves applicable to the same and to other steam-engines.	2772	5th Nov. 1861	Robert Wilson.
Improvements in the construction of the wheels of traction engines and in the mode of adaptation to such engines.	2804	19th Nov. 1861	Jesse Lee.
Equilibrium lubricators for steam cylinders, valve boxes and other similar purposes - -	2805	19th Nov. 1861	John Taylor. Thomas Howard Hepworth.
Rotary engines - - - - - (*Communicated by John Benjamin Root.*)	2828	21st Nov. 1861	William Edward Newton.
Locomotive steam carriages for common roads -	2831	22nd Nov. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.
Improved means of rendering steam-tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus for rendering thereof steam-tight and fluid-tight. (*Communicated by Francisque Million.*)	2840	22nd Nov. 1861	Michael Henry.
An improved apparatus for the multiplication of motive-power. (*See* "PROPELLING.") (*Communicated by Eugène Constant Marie Bonnier.*)	2842	23rd Nov. 1861	Marc Antoine François Mennons.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2848	23rd Nov. 1861	William Bray.
Construction and materials of surface condensers -	2851	25th Nov. 1861	Vaughan Pendred, junior.
Improvements in obtaining and applying motive steam and liquid power and in apparatus connected therewith.	2853	25th Nov. 1861	John Macintosh.
Apparatus for regulating and indicating the speed of steam-engines and other machinery.	2879	27th Nov. 1861	John Standfield.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Improved arrangements of compound steam-engines	3057	6th Dec. 1861	Adam Woodward. Robert Woodward. William Woodward.
Rotatory engines and pumps - - - (*Partly communicated by Eduard Rösch.*)	3065	6th Dec. 1861	Heinrich Gottfried Schramm.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes, and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Brooman.
Improvements in locomotive engines, parts of which improvements are also applicable to marine and stationary engines.	3120	12th Dec. 1861	Joseph Dominique Jobin.
Improvements in the construction of boilers or generators for steam-engines and other uses applicable also to evaporators, and in pumps used therewith or otherwise used, some of which improvements in pumps are applicable to pistons and piston rods generally.	3123	13th Dec. 1861	Stephen Barber Hewett.
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
Railway rolling stock - - - - (*Communicated by Thomas Jefferson Thompson.*)	3149	14th Dec. 1861	John Henry Johnson.
An improved equilibrium valve - - -	3168	18th Dec. 1861	James Perrin.
Improved condensing apparatus for steam-engines - (*Communicated by Wilhelm Winter.*)	3173	18th Dec. 1861	John Piddington.
Improved means for reducing the friction and wear of slide valves of steam-engines. (*Communicated by Andrew Buchanan.*)	3221	24th Dec. 1861	Alfred Vincent Newton.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam-engines, and for an improved steam trap.	3235	26th Dec. 1861	Richard Needham.
See also "GAUGES." *See also* "GOVERNORS."			
III.—Water-wheels and Engines; Hydraulic Motive-power.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Obtaining motive power - - - - (*Communicated by Monsieur Main-Guillon.*)	31	5th Jan. 1861	William Edward Gedge.
Rotary engines applicable to be worked by water, steam or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
An improved construction of motive-power engine - (*Communicated by W. H. C. Voss.*)	272	1st Feb. 1861	Alfred Vincent Newton.
Improvements in obtaining and applying motive-power by water and in apparatus connected therewith.	406	19th Feb. 1861	Thomas Pedrick.
A rotatory cone, being a new application of the centrifugal force to the purpose of raising and propelling fluid bodies.	857	8th April 1861	Hyacynthe Deheselle.
Improved arrangement of engine for obtaining and applying motive-power - - - -	922	15th April 1861	James Smith. Sydney Arthur Chease.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Machinery or apparatus for the manufacture of sugar. (*Water wheel.*)	1095	2nd May 1861	John Charles Wilson.
Obtaining motive-power - - - - (*By water.*)	1105	2nd May 1861	Joseph George Brown.
Improved hydraulic apparatus - - - (*See* "TAPS.")	1151	7th May 1861	François Defaye.
Obtaining and applying motive-power by aëro-hydraulic means.	1224	14th May 1861	Thomas Charles Boutet.
Apparatus for raising water and other fluids, which same apparatus may also be employed as a prime mover.	1327	27th May 1861	Thomas Moore.
Obtaining motive-power - - - - (*Communicated by Monsieur Main-Guillon.*)	1710	5th July 1861	William Edward Gedge.
Self-acting and inexhaustible hydraulic and atmospheric motive-power engines.	1969	8th Aug. 1861	Nicholas Doran Proby Maillard.
Obtaining and applying water motive-power -	2061	19th Aug. 1861	Thomas Pedrick.
Improvements in the application of the Archimedean screw to the production and transmission of motive-power, and in the apparatus connected therewith. (*Communicated by Julius Sturm, C.E.*)	2224	6th Sept. 1861	Marc Antoine François Mennons.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
A new mode of and apparatus for producing and obtaining an hydro-pneumatic motive-power.	2696	28th Oct. 1861	Bartolomeo Predavalle.
Improvements in obtaining and applying motive steam and liquid power, and in apparatus connected therewith.	2953	25th Nov. 1861	John Macintosh.
Supplying water to water wheels - - - *See also* "GOVERNORS."	3156	16th Dec. 1861	John Aitken.
IV.—Electro-magnetic Engines; Electro Motive-power.			
Machinery or apparatus for obtaining motive-power (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Electro-magnetic engines for obtaining and applying motive-power.	449	22nd Feb. 1861	John Reeves.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes.	1322	25th May 1861	Edward Henry Cradock Monckton.
Obtaining and applying magnetic motive-power -	1341	29th May 1861	Edward Henry Cradock Monckton.
A new and economical method of producing dynamic electricity thereby obtaining useful chemical compounds. (*Or for motive power.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Improvements in electro-magnetic engines for obtaining and applying motive-power.	2303	16th Sept. 1861	John Reeves.
Improvements in electro-magnetic engines for obtaining and applying motive-power.	2425	28th Sept. 1861	John Reeves.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
V.—Mechanical Motive-power; Horse-power.			
Obtaining motive-power - - - - (*Communicated by Monsieur Main-Guillon.*)	31	5th Jan. 1861	William Edward Gedge.
Improved apparatus for obtaining motive-power by centrifugal force.	134	17th Jan. 1861	Marcelin François Cavalerie.
Improvements in apparatus for locomotion and in the construction of certain wheels employed therein and of levels used therewith, such improved wheel and level being also applicable for other purposes. (*Communicated by José Gallegos.*)	137	17th Jan. 1861	Michael Henry.
Motive-power for sewing-machines - - -	802	1st April 1861	James Edward Boyd.
Motive-power engines - - - - (*By quicksilver.*)	1090	1st May 1861	Johann Ernst Friedrich Lüdeke.
Obtaining motive-power - - - - (*By shot or sand.*)	1105	2nd May 1861	Joseph George Brown.
An improved apparatus for obtaining and applying motive-power.	1647	27th June 1861	John Doughty.
A new locomotive apparatus having a movement resembling walking. (*See* "TOYS.") (*Communicated by Messrs. Thomas Hanlon, George Hanlon, William Hanlon, Alfred Hanlon, Edward Hanlon and Frederick Hanlon.*)	1664	29th June 1861	William Clark.
Machinery for applying the power of horses or other animals to drive mills or other machines.	1697	4th July 1861	John Patterson.
Obtaining motive-power - - - - (*Communicated by Monsieur Main-Guillon.*)	1710	5th July 1861	William Edward Gedge.
Machinery or apparatus for obtaining rotary motion by the use of the gravitating power of solid or fluid matter.	1919	2nd Aug. 1861	Robert Benton.
Improved mechanical contrivances increasing the effect of motive-power. (*Communicated by François Berger.*)	1952	6th Aug. 1861	Frederick Tolhausen.
Obtaining motive-power by the combination and arrangement of levers and weights.	2236	7th Sept. 1861	Ephraim Taylor.
A new or improved motive-power engine - -	2247	9th Sept. 1861	William Dowell. James Dowell.
Obtaining motive-power by machinery - -	2939	22nd Nov. 1861	William Evans.
MOULDINGS AND ARCHITECTURAL ORNAMENTS.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For architectural ornaments.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOULDINGS, &c.—*continued.*			
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For mouldings.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
An improved process for manufacturing india-rubber pipes. (*And ornamental mouldings.*)	981	20th April 1861	Jean Baptiste Jules Noirot.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For architectural mouldings and ornaments.*)	1269	18th May 1861	Archibald Campbell Ponton.
Reproduction of forms of objects, applicable to the production of printing surfaces. (*Copies of mouldings.*) (*Communicated by Louis Kessler and Joseph Alfred Xavier Michiels.*)	1603	21st June 1861	John Henry Johnson.
Machinery for cutting wood - - - (*Making mouldings.*)	1846	23rd July 1861	Robert Thompson.
Mitre boxes and shooting boards - - - (*For mitreing mouldings.*)	1880	27th July 1861	Robert Elmy Garrood.
Improvements in the construction of buildings and in materials and machinery to be employed therein and therefor. (*Casting mouldings.*)	1901	30th July 1861	Matthew Allen.
Application of mica to ornamental and other purposes. (*For covering beading, mouldings, &c.*) (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes. (*For rosettes, &c.*)	2434	30th Sept. 1861	Benjamin George George.
Improved machinery for planing and shaping wood	2497	5th Oct. 1861	William Squire.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - - - (*Entablatures.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Machinery for enamelling moulded and other surfaces. (*Wood mouldings.*) (*Communicated by Robert Marcher.*)	2715	29th Oct. 1861	John Henry Johnson.
Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Communicated by Robert Marcher.*)	2912	20th Nov. 1861	John Henry Johnson.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Mouldings, beadings, astragals, brackets, &c.*)	2944	23rd Nov. 1861	John Weems.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MUSICAL INSTRUMENTS; MUSIC STANDS; TURNING OVER LEAVES OF MUSIC.			
An improved instrument for writing and printing music.	76	11th Jan. 1861	Paul Laffitte, junior.
Piano-fortes - - - - - -	279	2nd Feb. 1861	William Prangley.
Manufacture of music plates - - - -	434	21st Feb. 1861	Joshua James Watts. Samuel Harton.
An improved musical instrument, parts of which are applicable to organs, harmoniums and similar instruments. (*Communicated by Bertrand Fuga.*)	628	14th March 1861	William Edward Gedge.
Improving the manufacture of harmoniums -	643	15th March 1861	Jules Bigourat.
Apparatus used in winding up watches, clocks, timepieces, musical boxes or tell tales, or for other purposes to which the same may be applicable.	828	4th April 1861	John Walker Lee.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For musical instruments and cases.*)	853	6th April 1861	Thomas Goulston Ghislin.
Apparatuses for turning over leaves or sheets of music and other like sheets. (*Communicated by Louis Etienne Stanislas Petit.*)	864	8th April 1861	Richard Archibald Brooman.
Drums - - - - - - -	985	20th April 1861	James Waddell.
Harmoniums - - - - - - -	1068	27th April 1861	Henry Thomas Wedlake.
Piano-fortes - - - - - -	1293	21st May 1861	William Porter Dreaper.
An improvement in the manufacture of pianos - (*Communicated by Mr. Auguste Antoine Villaert.*)	1413	5th June 1861	Antonin Duguet.
Improvements in piano-fortes, parts of which improvements are applicable to other musical instruments and to apparatuses worked by pedals. (*Communicated by Jean Léandre Clément.*)	1591	20th June 1861	Richard Archibald Brooman.
An improved stand or rest for piano-fortes or other musical instruments.	1606	22nd June 1861	Jabez Church.
Piano-fortes - - - - - -	1658	28th June 1861	Charles Glassborow.
Improvements in or applicable to piano-fortes and other musical instruments. (*Communicated by Jean Jules Cauderès.*)	1682	2nd July 1861	Michael Henry.
Certain improvements in the piano-forte - -	1751	11th July 1861	Joseph Rogerson Cotter.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass. (*Ornamenting pianos.*)	1753	11th July 1861	William Wilkinson.
Manufacture of wind musical instruments in brass or other metal to which pistons are applicable.	1761	13th July 1861	Pierre Jean De Rette.
Piano-fortes - - - - - -	1807	18th July 1861	Benjamin Johnson. William Henry Anderson.
An improvement or improvements applicable to concertinas.	2070	20th Aug. 1861	Samuel Warwick.
The manufacture of an instrument to facilitate the practice of the drum.	2135	27th Aug. 1861	John Christopher Caesar Azémar.
Concertinas - - - - - -	2152	29th Aug. 1861	Philip Jewell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MUSICAL INSTRUMENTS, &c.—*continued.*			
Improvements in the construction of casters (*For musical instruments.*)	2219	5th Sept. 1861	Charles Weightman Harrison.
Improvements in concertinas and other musical instruments the tones of which are produced from the vibration of springs.	2289	14th Sept. 1861	William Wheatstone.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard-wood and compounds of india-rubber or gutta-percha have hitherto been employed. (*For musical instruments.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
An improved manufacture of gongs	2485	4th Oct. 1861	Samuel Icely.
Construction of organs	2508	8th Oct. 1861	Henry Willis.
Metal musical wind instruments	2559	14th Oct. 1861	Henry John Distin.
Metal musical wind instruments	2592	18th Oct. 1861	Henry John Distin.
Metal musical wind instruments	2596	18th Oct. 1861	James Lawson. Henry Carter.
An improved pedal-box to be applied to flutinas or small organs and other similar musical instruments.	2674	25th Oct. 1861	Edouard Alexandre.
A new kind of keyed musical instrument combining the effects of percussion instruments or the effect of trumpets and similar instruments with the effects of ordinary keyed instruments.	2676	25th Oct. 1861	Jean Baptiste Schalkenbach.
Manufacture of clarionets	2806	8th Nov. 1861	Joseph Tyler.
Piano-fortes	2887	16th Nov. 1861	Robert Thomas Worton.
Construction of the cases of piano-fortes	3026	3rd Dec. 1861	Robert Anderson Rüst.
An improved wind musical instrument	3231	26th Dec. 1861	Louis Julien Jaulin.
NAILS AND SPIKES; BOLTS AND RIVETS; SCREWS AND SCREW-BLANKS; NUTS AND WASHERS; SCREW-STOCKS AND DIES; DOWELS OR HOLDFASTS.			
Machinery for shaping metal (*Making rivets, &c.*)	219	28th Jan. 1861	Charles De Bergue.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
Improved machinery or apparatus for making, forging and punching metal nuts, bolts, spikes or washers.	305	6th Feb. 1861	John Marsden.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles. (*Washers for wheels.*)	397	18th Feb. 1861	Robert Offord, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
NAILS, &c.—*continued.*			
Machinery for forging nails and other articles (*Communicated by John Hood.*)	426	21st Feb. 1861	Frederick Delacourt Blyth. James Adair.
Improved machinery for forging horse shoe nails, spikes and other like articles. (*Communicated by Benjamin A. Mason.*)	563	5th March 1861	Alfred Vincent Newton.
Certain improvements in the manufacture of horse nails	728	22nd March 1861	Charles Evers Swindell. Joseph Russell. Joseph Price.
Improvements in the manufacture of nails, railway spikes or pins and gas tube fastenings, and in machinery employed in the said manufacture	839	5th April 1861	David Brown. Noah Fellows. Edward Jones. William Brown.
Improved apparatus for drawing bolts (*Communicated by Hamilton Towle.*)	875	9th April 1861	William Edward Newton.
Dowels	885	10th April 1861	William Rodrigues Rogers.
Machinery for forging nails (*Communicated by S. Menans.*)	917	13th April 1861	Charles Denton Abel.
An improved process for manufacturing india-rubber pipes. (*And washers.*)	981	20th April 1861	Jean Baptiste Jules Noirot.
Machinery for making nuts, bolts and rivets	1063	27th April 1861	William Henry Parsons.
Improvements in the manufacture of nails and in apparatus used thereby.	1161	8th May 1861	Jean Thomas Massiaux.
Manufacture of gutta-percha and compounds thereof with other matters and substances. (*For washers.*)	1166	8th May 1861	John Rolfe Hunt.
Improvements in the manufacture of wooden keys and treenails for railways and shipping, and in machinery employed therein.	1197	11th May 1861	William Wilson.
Improvements in machinery for grinding the cards of carding-engines, and in machinery for making the same. (*Cutting the endless screw.*)	1306	23rd May 1861	Charles Nuttall.
An improvement in the form of iron, steel, brass, copper and other metallic alloy, for making nails, spikes, bolts, screws, and other similar driving articles both plain and twisted.	1369	1st June 1861	Montague Wigzell.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making nails and washers.*)	1446	7th June 1861	Samuel Bennett, junior.
Machinery for the manufacture of bolts, spikes, screw blanks and rivets.	1571	18th June 1861	Thomas Taylorson Joplin.
An improved mode of treating tubes used for posts for metallic bedsteads and other purposes, and in the machine for producing the same, and which said machine is also applicable for cutting out and piercing articles of sheet metal such as washers, metallic bucket ears and other such like articles	1672	1st July 1861	Ferdinand Potts. Richard Cox.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
NAILS, &c.—*continued.*			
A machine or apparatus for twisting ordinary nails and all other similar driving articles of a parallel or tapered form and of a plain, fluted, grooved or indented section throughout or in part.	1998	10th Aug. 1861	Montague Wigzell.
Machinery or apparatus for making plain twisted nails, spiral fluted nails and other similar driving articles of a twisted or spiral fluted form throughout or in part.	1999	10th Aug. 1861	Montague Wigzell.
Screw stocks and dies - - - - - (*Communicated by John Peace.*)	2154	30th Aug. 1861	Robert Penrose.
Machinery or apparatus for the manufacture of horse shoe and other nails. (*Communicated by Charles Alexandre Louvrier.*)	2319	17th Sept. 1861	George Davies.
Manufacture of castings, rods, bars, bolts, nails, rivets and sheets when alloys of copper are used.	2366	21st Sept. 1861	Alexander Parkes.
Nails - - - - - - - -	2399	26th Sept. 1861	Daniel Joseph Fleetwood.
Tools for the manufacture of leather and other rings, washers and laces.	2447	1st Oct. 1861	John William Scott.
Machinery for manufacturing shoes for horses and other animals. (*And for making nuts and washers.*) (*Communicated by Thomas Randolph Taylor.*)	2520	9th Oct. 1861	George Davies.
Hand stocks and dies for cutting screws - -	2524	9th Oct. 1861	John James Russell.
Manufacture of railway fastenings and a mode of preparing rails and fish plates to receive them.	2541	11th Oct. 1861	Robert Richardson.
Machinery or apparatus for punching washers for throstles and other similar purposes.	2552	12th Oct. 1861	Henry Nelson.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, ship-building, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Pegs, nails or like fastenings for uniting the soles of boots and shoes and other substances.	2881	16th Nov. 1861	James Grint.
Ground or earth screws - - - - - (*See* "PILE DRIVING.")	2914	20th Nov. 1861	Frederick Johnson.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - - - - (*Aluminum screws.*)	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes. (*And preparation of nails, bolts, &c.*)	3111	12th Dec. 1861	Richard Searle.

Subject-matter of Patent	Number of Patent.	Date.	Name of Patentee.
OIL-CLOTHS, FLOOR-CLOTHS, FURNITURE COVERS; TARPAULING, AWNINGS; KAMPTULICON.			
Weaving textile fabrics - - - - (*For tarpauling.*)	887	11th April 1861	David Chalmers.
Manufacture of kamptulicon - - -	1387	3rd June 1861	William Richard Jeune.
Compounds of india-rubber and gutta-percha with other substances. (*For making kamptulicon.*)	1580	19th June 1861	John Fisher Williams.
Improvements in the manufacture of floor-cloth and in the means of ornamenting the same.	1600	21st June 1861	William Frederick Henson.
Perforated materials in combination with india-rubber. (*For dinner table mats, &c.*)	1736	9th July 1861	George Seaborn Parkinson.
Improvements in the manufacture of ladies' collars, cuffs or other ornamental articles for dress or furniture to imitate such articles made of lace or embroidery - - - - - (*Toilet covers.*)	2124	26th Aug. 1861	Auguste Lechêne. Charles Nathan.
Improvements in the manufacture of floor-cloth and in ornamenting other surfaces.	2345	19th Sept. 1861	Samuel Hawksworth.
Improvements in the construction of umbrellas adapted to purposes of self defence, some of which improvements are also applicable to other purposes. (*Applicable for awnings.*)	2431	30th Sept. 1861	Thomas Smith.
Manufacture of elastic fabrics - - - (*Floor-cloths.*)	2779	5th Nov. 1861	Edward Bowra.
Preparing and treating gutta-percha and india-rubber. (*Making floor-cloths.*)	2800	7th Nov. 1861	William Albert Shepard.
OILING OR LUBRICATING; MATERIALS FOR OILING; OIL-CANS AND LUBRICATORS.			
An improved grease for lubricating the frictional surfaces of machinery.	58	9th Jan. 1861	Claude Nicolas Leroy.
An improved lubricating grease or paste for railway wheels and all kinds of machinery.	158	21st Jan. 1861	Francis William Perrott.
An improved apparatus for lubricating the frictional surfaces of machinery.	266	1st Feb. 1861	Robert Kunstmann.
A mode of greasing pistons and slide valves even in course of working, applicable to all sorts of machines having the same.	287	4th Feb. 1861	Just Sebastian Larue.
Construction and arrangement of bearings and grease boxes for shafts and axles, applicable also to the bosses of wheels. (*Communicated by Jose Gallegos.*)	345	11th Feb. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILING, &c.—*continued.*			
Machinery or apparatus for roving, slubbing or spinning cotton and other fibrous materials -	384	15th Feb. 1861	George James Wainwright. Charles Timothy Bradbury. John Lawton.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given - - - -	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Apparatus for lubricating the moving parts of machinery.	608	12th March 1861	Auguste Aerts.
Apparatus for lubricating the piston rods, pistons and cylinders of steam-engines and other frictional surfaces of machinery - - -	616	13th March 1861	Benjamin Grundy. Samuel Andrew.
Steam-engines and boilers - - - - (*Oiling pistons and cylinders.*)	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in steam-engines and boilers and in apparatus connected therewith. (*Lubricating cylinders.*)	786	30th March 1861	John Cass.
An improved lubricating compound - -	794	30th March 1861	Oswald Earle.
Improvements in boxes and bearings for lubricating the axles and journals of wheels, also applicable to lubricating the shafts or axles of machinery in general.	910	13th April 1861	Albert François Delannoy.
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
Apparatus for lubricating the barrels of fire-arms and ordnance.	1050	26th April 1861	John Harcourt Brown.
Carriage axles and axle-boxes - - -	1058	26th April 1861	John Watkins.
An improved lubricating compound - - (*Communicated by John Blake McMunn.*)	1144	6th May 1861	William Edward Newton.
Lubricating-apparatus for lubricating the journals and bearings of shafts and other frictional surfaces of machinery.	1170	8th May 1861	Henry Swan.
An improved machine for applying steam in a manner to cause direct rotation. (*Communicated by Messrs. Antonio Grande, Giovanni Battista Olivieri and Lorenzo Mongiardino.*)	1256	16th May 1861	Bernard Hudson.
An improved method of lubricating carriage axles -	1312	23rd May 1861	Ebenezer Partridge.
Improvements in axle-boxes and in lubricating the parts therein.	1421	6th June 1861	Léon Joseph Pomme De Mirimonde.
Treatment of wool - - - - -	1466	8th June 1861	John Hutchinson.
Applying oil or lubricating fluid to locomotive and other axletrees.	1524	13th June 1861	Bewicke Blackburn.
Machinery or apparatus for manufacturing snuff -	1560	18th June 1861	William Fleming.
Compositions used for lubricating railway and other axles.	1703	4th July 1861	John Webster.
Apparatus and fittings connected with steam-engines and boilers. (*Lubricating the cylinders.*)	1750	11th July 1861	James Farron.
Locomotive engines and trains - - -	1757	12th July 1861	William Bridges Adams.
Improvements in lubricating those parts of steam-engines acted on by the steam and in apparatus for the same, which said apparatus can be used for other purposes - - - -	1763	13th July 1861	Isaac Beamish. Noah Beamish.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILING, &c.—*continued.*			
Lubricators for lubricating the various parts of machinery.	1830	20th July 1861	Robert Thatcher.
Machinery for lubricating parts of machinery and for other lubricating purposes.	1845	23rd July 1861	Nicolas Etienne Dumesnil.
Pumps applicable to steam and other fire-engines -	1925	3rd Aug. 1861	Moses Merryweather. Richard Moses Merryweather.
Manufacture from steatite of journals, axle-boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Improved apparatus for oiling wool - -	2116	24th Aug. 1861	William Clissold.
Improvements in the manufacture of animal oils, the said improvements relating more particularly to the processes of refining them to be used for lubricating purposes.	2161	30th Aug. 1861	Henry William Spencer.
The application of a self-acting lubricator to corves and wagons.	2256	10th Sept. 1861	Thomas Smith Tyson.
Apparatuses for letting off water from and for admitting oil or other lubricating matter into steam cylinders. (*Communicated by Isidore Duballe.*)	2392	25th Sept. 1861	Richard Archibald Brooman.
Improvements in machinery or apparatus for preparing, spinning or doubling cotton, silk and other fibrous materials, parts of which improvements are applicable for winding and other purposes. (*Lubricating spindles.*)	2777	5th Nov. 1861	Richard Fethney.
An improvement in and composition for treating iron and steel and articles manufactured thereof. (*Composition of fat, oil and garlic.*) (*Communicated by Alphonse Muller de la Mothe.*)	2845	12th Nov. 1861	Michael Henry.
Equilibrium lubricators for steam cylinders, valve boxes and other similar purposes - -	2905	19th Nov. 1861	John Taylor. Thomas Howard Hepworth.
Construction of vessels or apparatus for supplying lubricating matter to mechanism - -	2910	19th Nov. 1861	Frederick Luke Stott. Mark Tomlinson.
An improved grease for lubricating frictional surfaces.	3128	13th Dec. 1861	Gregory Bird.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam engines, and for an improved steam trap.	3235	26th Dec. 1861	Richard Needham.
OILS FROM SEEDS, &c.; TREATING OILY AND FATTY MATTERS; ANIMAL OILS; GLYCERINE, STEARINE.			
Presses and modes of pressing applicable to cotton, hemp, wool, coir, hides, hay, fibres, peat, linen, thread, piece goods, extracting oil and other useful purposes.	18	3rd Jan. 1861	Samuel Perkes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILS FROM SEEDS, &c.—*continued.*			
An improved grease for lubricating the frictional surfaces of machinery.	58	9th Jan. 1861	Claude Nicolas Leroy.
Improvements in the manufacture of oils and in treating oils and fats for purposes of purifying, decolorizing, clarifying and disinfecting them.	483	25th Feb. 1861	Charles Corroy-Regnault.
An improved mode of bleaching and refining oils and other fatty substances. (*Communicated by Ferdinand Feist Mayer.*)	968	20th April 1861	Alfred Vincent Newton.
Manufacture of stearine - - - -	1099	2nd May 1861	Eugène De Bassano. Adolphe Brudenn.
Improvements in the decoloration and disinfection of liquids and in the apparatus to be employed therein, which improvements are also applicable to the manufacture or production of drying oils. (*Communicated by Louis Bouton.*)	1177	9th May 1861	John Henry Johnson.
Treatment of fatty and oily matters - -	1410	4th June 1861	Heinrich Ludwig Buff.
Improvements in extracting oil from seeds and in machinery or apparatus employed therein. (*Communicated by Johann Gottfried Hofmann.*)	1493	11th June 1861	Edward Thomas Hughes.
Treating fatty and oily matters obtained from wash-waters to deprive them of their smell.	1978	8th Aug. 1861	Louis Le Paige.
Improved methods of and apparatuses for treating linseed and other oils and fats.	2013	13th Aug. 1861	Christopher Binks.
Improvements in the manufacture of animal oils, the said improvements relating more particularly to the processes of refining them to be used for lubricating purposes.	2161	30th Aug. 1861	Henry William Spencer.
Improvements in cleansing cotton seeds and in machinery used for such process.	2179	31st Aug. 1861	John Macmillan Dunlop.
An improved apparatus for rendering fatty or oleaginous matter and delivering the same. (*Communicated by Wellington Lee, Esq.*)	2286	14th Sept. 1861	John Adams Knight.
An improved mode or method of bleaching palm oil - - - - - -	2383	24th Sept. 1861	Charles Watt. John Watt. Thomas Snaith Haviside.
An improved machine for expressing oil - -	2469	3rd Oct. 1861	Robert John Ellershaw.
Treatment of oils obtained by the distillation of bones and other animal matters for the purpose of obtaining matters which may be used as pigments and dye stuffs.	2474	4th Oct. 1861	James Stuart.
Manufacture of stearine - - - -	2726	30th Oct. 1861	Eugène de Bassano. Adolphe Brudenne.
Treating fatty and oily matters - -	2831	11th Nov. 1861	George Fergusson Wilson. George Payne.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein. (*Forming cupreous drying oil.*)	2834	12th Nov. 1861	William John Hay.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Treating fatty and oily matters - -	2917	20th Nov. 1861	Francis Puls.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILS, &c.—*continued.*			
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*Vessels for holding oils.*)	2944	23rd Nov. 1861	John Weems.
Manufacture of soap and the preparation of materials for the purpose. (*Communicated by Louis Marie Théophile Riot.*)	2994	27th Nov. 1861	Michael Henry.
Treating linseed oil - - - -	3082	9th Dec. 1861	John Fordred.
Improvements in the expression of oil from cake and seeds, and in apparatuses employed therein.	3143	14th Dec. 1861	Jacques Edouard Duyck.
Improvements in treating fatty and resinous bodies either in a neutral or acid state. (*Communicated by Charles Moinier.*)	3241	27th Dec. 1861	Peter Armand Le Comte de Fontainemoreau.
Improvements in the manufacture of cases or receptacles for oil, fuses and other articles used in the military and naval services.	3250	28th Dec. 1861	Arthur Warner.
OILS OF TAR, BITUMEN AND RESIN; NAPHTHA, PARAFFINE, &c.; MINERAL OILS, HYDRO-CARBONS, PHOSPHORUS.			
An improvement or improvements in treating coal and other bituminous minerals and peat for the purpose of obtaining solid and liquid hydrocarbons therefrom.	36	5th Jan. 1861	William Mattieu Williams.
Apparatus for the treatment or distillation of bituminous substances. (*For obtaining crude oil.*)	486	25th Feb. 1861	James Young.
Improvements in the manufacture of oils and in treating oils and fats for purposes of purifying, decolorizing, clarifying and disinfecting them.	488	25th Feb. 1861	Charles Corroy-Regnault.
Improvements in distilling and rectifying and in apparatus employed therein. (*Communicated by Monsieur Ley.*)	529	1st March 1861	Michael Henry.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining paraffine, creosote, eupion, naphtha, &c.*)	650	15th March 1861	William Lorberg.
Improvements in obtaining products from coal and in apparatus employed therein.	1382	1st June 1861	William Albert Shepard.
Obtaining products from sea weeds - - (*Light oil and benzole.*)	1411	4th June 1861	Edward Charles Stanford.
Manufacture of benzole, naphtha, napthaline, aniline and carbolic acid.	2801	7th Nov. 1861	John Barrow.
Improvements in the treatment of zinc ores and in the apparatus employed therein, which improvements are also applicable to the manufacture of phosphorus. (*Communicated by Adrien Muller.*)	2920	20th Nov. 1861	John Henry Johnson.
An improved grease for lubricating frictional surfaces.	3128	13th Dec. 1861	Gregory Bird.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILS OF TAR, &c.—*continued.*			
Treatment and application to various useful purposes of light spirituous liquids.	3175	18th Dec. 1861	Charles Edward Symonds.
An improvement or improvements in treating coal and other bituminous minerals and peat in order to obtain solid and liquid hydro-carbons therefrom, and in apparatus to be used for that purpose.	3208	21st Dec. 1861	William Mattieu Williams.
OPTICAL INSTRUMENTS; SPECTACLES.			
Spectacles and hand frames - - -	389	16th Feb. 1861	John Braham.
Improvements in telescopes and in covers for the object glasses thereof.	404	19th Feb. 1861	John Browning.
An improvement in the frames of spectacles -	421	20th Feb. 1861	James Sutton.
Manufacture of certain kinds of spectacle frames -	451	22nd Feb. 1861	Charles Eyland.
Manufacture of glass - - - - - (*Lenses.*)	554	5th March 1861	Tony Petitjean.
A new optical apparatus for reproducing and varying all sorts of drawings, which apparatus they call Goniometroscope - - - -	813	2nd April 1861	Adolphe Huray. Herman Leilé.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and amyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For telescopes and opera glasses, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Spectrum cameras - - - - - -	1181	9th May 1861	John Browning. William Crookes.
An improved magic lantern and of views to be used therewith. (*Communicated by Henri Alexandre Lefevre.*)	1218	13th May 1861	John Henry Johnson.
Improvements in the construction of miniature microscopes and in the arrangement of the objects used therewith. (*Communicated by Adolphe L'Chouippe, M.D.*)	1383	4th June 1861	Marc Antoine François Mennons.
An improved optical instrument for the use of designers and others.	1490	11th June 1861	Thomas Oswald Small.
Certain improvements in apparatus for polarizing light, applicable to microscopes and other optical instruments.	1770	15th July 1861	Thomas Walker, junior.
Method of and apparatus for obtaining an increased effect from lights. (*Communicated by Charles François Le Page and Cyprien Poisson.*)	1834	20th July 1861	Michael Henry.
An improved apparatus for indicating the direction of objects and measuring angles.	1876	26th July 1861	Edward Sang.
Construction of spectacles - - - -	2064	20th Aug. 1861	Augustin Sylvester Rostaing.
Optical and illuminating apparatus - - - (*Communicated by William Ferdinand Count de Doubet.*)	2063	21st Aug. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Optical Instruments, &c.—*continued.*			
An improved microscope to be used for exhibiting photographic views and productions.	2347	19th Sept. 1861	René Prudent Patrice Dagron.
An improvement or improvements in ornamenting surfaces. (*Spectacle cases.*)	2996	27th Nov. 1861	Samuel Amphlet.
A new or improved combination of microscopic photographs and lenses with certain precious stones or imitations thereof. (*Communicated by Louis Henri Bouillette and Jean Amable Hyvelin.*)	3080	9th Dec. 1861	Marc Antoine François Mennons.
Ovens and Kilns.			
An improved construction of kiln for calcining limestone, gypsum or other similar substances -	240	30th Jan. 1861	Alexander Courtois. Jerome Ernest De Soulange.
An improved construction of kiln for baking bricks, tiles or other similar articles - -	241	30th Jan. 1861	Alexander Courtois. Jerome Ernest De Soulange.
Construction of charcoal and other kilns - -	297	5th Feb. 1861	George Williams.
An improved apparatus for heating Turkish baths, public and private buildings, vineries, hot houses and cooking ovens.	689	19th March 1861	John Adams Bolton.
Improvements in the construction of furnaces for heating steam-boilers, bakers' ovens and brewers' coppers, which improvements are applicable also to furnaces made use of for various other purposes.	779	28th March 1861	William Stratford.
A smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes.	1121	4th May 1861	George Rydill.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
Kilns for baking bricks, tiles and other similar articles.	2021	14th Aug. 1861	Alcidalis Auguste Romain Damoiseau.
Kilns or ovens for burning or calcining limestone, chalk, cement and other substances requiring such process.	2408	26th Sept. 1861	Marie François Alexandre Courtoise.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - -	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Improvements in the treatment of zinc ores and in the apparatus employed therein, which improvements are also applicable to the manufacture of phosphorus. (*Communicated by Adrien Muller.*)	2920	20th Nov. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OVENS, &c.—*continued.*			
Improvements in collecting and utilizing smoke, gases and such like products of combustion, rendering the same available for heating steam-boilers and other purposes where heat is required, which improvements are also applicable to the desulphurization of coal in making coke.	2962	25th Nov. 1861	John Halford.
Kitcheners or cooking ranges - - -	3124	13th Dec. 1861	William Bell.
Improvements in cooking stoves and ships' ranges - (*Communicated by John Russell.*)	3237	26th Dec. 1861	Joseph Nottingham Palmer.
OXIDATION AND INCRUSTATION (*Preventing and Removing*); **OXIDISING.**			
Certain applications of chapapote and its products and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Preventing incrustation in steam-boilers, in tanks for containing the feed for the same, and in bars for the furnaces thereof.	614	13th March 1861	James Farren.
An improved mode of preventing corrosion in boiler tubes.	686	19th March 1861	Arthur Wall.
Submarine telegraph cables - - -	753	25th March 1861	John Chatterton. Willoughby Smith.
Steam-boilers and the prevention of incrustation therein - - - - - - -	785	30th March 1861	Thomas Sykes. Benjamin Clifford Sykes, M.D.
Improvements in carriage and other axles, and also in shafts and other parts of machinery exposed to the action of the atmosphere.	838	5th April 1861	William Richardson.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
A mode of preparing and oxidizing agent - -	1207	13th May 1861	Francis Puls.
Improvements in marine steam-boilers, parts of which improvements are applicable to other steam-boilers, and in apparatus connected therewith.	1472	10th June 1861	Robert Armstrong.
Posts or supports for telegraph wires - -	1512	12th June 1861	Robert Jobson. Cromwell Fleetwood Varley.
Coating wire with copper, silver, gold or other metal or alloy in order to prevent oxidation. (*Communicated by Martin Miller.*)	2023	14th Aug. 1861	Richard Archibald Brooman.
Apparatus for removing the sediment from and preventing incrustation in steam-boilers.	2171	31st Aug. 1861	Peter Taylor.
An improved compound to prevent the incrustation and sediments of calcareous matters in boilers. (*Communicated by Ernest Louis Pickio.*)	2551	12th Oct. 1861	Edward Thomas Hughes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OXIDATION, &c.—*continued.*			
Improvements in preventing and removing deposit in steam-boilers and other vessels, and in the apparatus employed therein. (*Communicated by Joseph Harrison.*)	2654	23rd Oct. 1861	John Henry Johnson.
Apparatuses for generating, superheating and condensing steam - - - - - -	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
Treating fatty and oily matters - - - (*Oxidising.*)	2917	20th Nov. 1861	Francis Puls.
An improved method of removing and preventing the formation of calcareous and saline deposits in steam-boilers. (*Communicated by Lewis Baird.*)	2961	25th Nov. 1861	Alfred Vincent Newton.
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
Improvements in the method of treating steel for the manufacture of crinoline.	3236	26th Dec. 1861	Henry Dawes.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
The application of certain electro deposits to the coating or finishing of the stretchers, ribs and other metal portions of umbrellas and parasols -	3074	7th Dec. 1861	Thomas Fearn. Thomas Cox, junior.
PAINTING, COLOURING AND VARNISHING; PAINTS, COLOURS, VARNISHES, GLAZES AND LACQUER.			
Manufacture of pigments for coating surfaces -	49	8th Jan. 1861	George Hallett. John Stenhouse.
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*As glazes.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For painters' panels.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAINTING, &c.—*continued.*			
Manufacture of pigments for coating surfaces -	215	26th Jan. 1861	George Hallett. John Stenhouse.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For panels for painting.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
A metal paint and for applying the same by painting in gold and imitation gold, silver or other metal color on velvet, cloth and other fabrics having a pile or woolly or flossy surface - -	229	29th Jan. 1861	Theodor Anton Verkrüzen. Moritz Anton Verkrüzen.
The manufacture of sub- or oxi- sulphate of lead - (*Communicated by Mr. Ludwig Brumlen.*)	335	9th Feb. 1861	Augustus Leidemann. Theodore Lange.
Manufacture of white lead, zinc white, and glazing or potters' lead.	376	14th Feb. 1861	Thomas Cobley.
Coating and protecting the silvered surfaces of looking-glasses or mirrors. (*Varnishing.*)	454	22nd Feb. 1861	James Edgar Cook.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Certain improvements in the manufacture of white lead and other salts of lead direct from ores containing carbonate of lead.	642	15th March 1861	John Arthur Phillips.
Improved means of coloring enamelled leather, leather cloth, enamelled metal and other enamelled surfaces. (*Communicated by Adrien Jacques Basset.*)	722	22nd March 1861	Richard Archibald Brooman.
Manufacture of globes or shades and chimneys for lamps, gaslights or gas burners. (*Colouring in the manufacture.*)	747	25th March 1861	William Bailey.
Manufacture of colour adapted for dyeing, painting and other uses.	750	25th March 1861	Frederick Versmann.
An improved method of fixing lac and lac varnishes upon glass and ceramic ware. (*Communicated by Albert Constant Gallais.*)	804	1st April 1861	Richard Archibald Brooman.
An improvement in the manufacture of "card cloth" used for carding cotton, wool and other fibrous substances - - - - (*Varnishing.*)	860	8th April 1861	Joseph Walker. James Barnes.
Treatment of fatty and oily matters - - (*Obtaining a substance for making varnish.*)	1	4th June 1861	Heinrich Ludwig Buff.
An improved crushing and pulverizing machine - (*For earths used in colour making, white lead, &c.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
An improved impermeable varnish for leather - (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAINTING, &c.—*continued.*			
An improved process for the manufacture of fluo-silicates and silicates of lead and baryta, and for the application of the same to various purposes in the arts and manufactures. (*As a pigment or glaze.*)	1732	8th July 1861	Thomas Cobley.
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same.	1772	15th July 1861	Thomas Cobley.
An improved process for the production or manufacture of fluo-silicates of tin, zinc and baryta, and their application as pigments for glazing, enamelling, and in the manufacture of glass.	1776	15th July 1861	Thomas Cobley.
An improved process for producing colouring matters or pigments from manganese. (*Communicated by Paul Morin.*)	1935	3rd Aug. 1861	William Edward Newton.
Improved methods of and apparatuses for treating linseed and other oils and fats.	2013	13th Aug. 1861	Christopher Binks.
Preparation, application and manufacture of peat - (*For peat black.*)	2058	19th Aug. 1861	William Henry Smith.
Manufacture of smoking pipes and cigar tubes, and preparing, washing, coating, covering or otherwise impregnating them with aromatic substances in a solid, liquid or aëriform state.	2114	24th Aug. 1861	Michael Hyams.
Improvements in printing and colouring paper, chintz and other fabrics, and machinery or apparatus for that purpose.	2190	2nd Sept. 1861	Alphonse Nicolas Saleres.
Giving lustre to written and printed letters, figures and devices.	2191	2nd Sept. 1861	George Knight.
Manufacture of varnishes applicable to the water-proofing and coating of fabrics and other uses -	2440	30th Sept. 1861	Frederick Walton. Richard Beard.
Treatment of oils obtained by the distillation of bones and other animal matters for the purpose of obtaining matters which may be used as pigments and dye stuffs.	2474	4th Oct. 1861	James Stuart.
Apparatus for the simultaneous manufacture of white lead and vinegar. (*Communicated by Robert Rowland.*)	2597	18th Oct. 1861	Charles Denton Abel.
Treatment of carpets - - - - (*Varnishing the back.*) (*Communicated by Jean Armand Edmond Poloncceau.*)	2808	8th Nov. 1861	John Henry Johnson.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
A new or improved method of protecting and preserving photographic and other prints, water-color drawings and other works of art from injury and decay.	2924	21st Nov. 1861	George Henry Polyblank.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAINTING, &c.—*continued.*			
Protecting ships' bottoms from fouling - -	3023	2nd Dec. 1861	William Pellew Bain.
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Graphitic composition; graphite paint.*) (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Caoutchouc varnish.*) (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
Treating linseed oil - - - - - (*For paints and varnishes.*)	3082	9th Dec. 1861	John Fordred.
Treatment and application to various useful purposes of light spirituous liquids. (*Vehicle for paints, substitute for turpentine in varnish, &c.*)	3175	18th Dec. 1861	Charles Edward Symonds.
An improved composition or improved compositions suitable for painting, varnishing and coating	3247	27th Dec. 1861	Jean Joseph Hector Fajole. Pascal Achille Agostini.
PAPER, PASTEBOARD AND PAPIER-MÂCHÉ; PAPER-HANGINGS.			
I.—Making Paper, Papier-mâché, Preparing Pulp, &c.			
Process of obtaining pulp for the manufacture of paper from indian corn and other similar plants.	16	3rd Jan. 1861	Henry Doffegnies.
Manufacture of paper and pasteboard - -	28	5th Jan. 1861	Pierre Courtais. Fortuné Jammet.
Manufacture of paper pulp - - - (*Communicated by Messrs. Louis Gaucher and Auguste Sommé.*)	282	2nd Feb. 1861	William Clark.
Improvements in the manufacture and preparation of paper and in the method of printing and otherwise preparing the same.	313	7th Feb. 1861	James Edward Boyd.
Treatment of soda waste and sulphurets. (*Obtaining "pearl hardening."*)	330	9th Feb. 1861	John Louis Jullion.
Treating the tobacco plant in order to manufacture paper. (*Communicated by Messrs. Michel Chominot and Picard.*)	347	11th Feb. 1861	Richard Archibald Brooman.
A new and useful bearing surface for all kinds of journal and axle boxes. (*Paper pulp.*)	377	14th Feb. 1861	Patrick Sarsfield Devlan.
The manufacture of paper from a pulp obtained from wood and all other vegetable produce of a woody nature, by means of the isolation of the cellular fibres - - - - -	391	16th Feb. 1861	Ernest Henry Barré. Charles Mary Joseph Blondel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Paper-making machines - - - -	396	18th Feb. 1861	Joshua Womersley.
The application of certain vegetable substances to the manufacture of paper pulp and the mode of treating the same for that purpose. (*Communicated by Charles Marie Gagnage.*)	437	21st Feb. 1861	John Henry Johnson.
Machinery for reducing wood into chips or shavings (*For making paper.*)	459	23rd Feb. 1861	Armand Louis André Herbelot.
Improved apparatus to be used in the manufacture of paper, applicable also to controlling the motion of travelling webs and fabrics. (*Communicated by F. Thiry.*)	543	4th March 1861	Ephraim Sabel.
An improvement in the apparatus used in the manufacture of paper.	622	13th March 1861	John Louis Jullion.
Manufacture of hats, bonnets, waistcoats and trimmings for wearing-apparel. (*From paper.*)	648	15th March 1861	Arthur Granger.
Presses for pressing or finishing textile fabrics - (*Manufacture of press plates.*)	665	16th March 1861	Adolphe Drevelle.
The manufacture of paper, linen, cotton, or other fabrics prepared with a preparation of blue to be used for the purpose of washing or other purposes. (*See* "DYEING.")	740	25th March 1861	William Edward Manby.
Sizing or preparing paper and textile fabrics in order to render them waterproof and to increase the strength thereof. (*Communicated by Leon Bertin and Pierre Carteron.*)	895	11th April 1861	Richard Archibald Brooman.
Mode of manufacturing and designing postage letter paper, postage envelopes for letters, and postage wrappers or covers for newspapers and other printed matter. (*Communicated by John Boyles Murray.*)	918	13th April 1861	James Wright.
Gloves - - - - - - - (*Of vegetable parchment.*)	958	18th April 1861	Mary Buchanan.
A new and useful packing for projectiles for guns or ordnance, especially those which are rifled or grooved on their bores. (*Paper pulp.*)	971	19th April 1861	John P. Schenkl.
Rag machines - - - - -	1022	24th April 1861	Joseph Rhodes. Richard Kemp.
Machinery for the manufacture of paper - -	1057	26th April 1861	Edmund Hamborough Joynson.
The manufacture of paper and cardboard from a fibrous vegetable matter not hitherto used for that purpose. ("*Pommes de mer.*") (*Communicated by Mr. Edmond Nuewens.*)	1109	3rd May 1861	Marc Antoine François Mennons.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Rags for paper making.*)	1204	11th May 1861	William Henry Tooth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Improvements in and applicable to the manufacture of slabs, panels and other forms or articles in paper or paper pulp.	1213	13th May 1861	James Deakin.
Obtaining fibrous materials and paper pulp from various trees, shrubs and plants.	1216	13th May 1861	Antoine Constant Vautier.
Improvements in manufacturing manure and in obtaining accessory products.	1276	18th May 1861	Frederick Oldfield Ward.
Manufacture of paper - - - -	1309	23rd May 1861	Joseph Henry Dart.
An improvement in the manufacture of paper -	1364	31st May 1861	Ebenezer Hartnall.
Manufacture of sulphate of alumina - - (*For use in paper making.*)	1448	7th June 1861	Alexander Angus Croll.
An improved mode of converting vegetable fibrous substances into pulp.	1507	12th June 1861	John Watt.
An improved method of bleaching coloured rags and vegetable fibres.	1543	17th June 1861	Thomas Gray.
Manufacture of paper - - - -	1548	17th June 1861	Thomas Routledge.
Manufacture of paper, papier-mâché, cardboard and other similar articles.	1604	22nd June 1861	Auguste Lucien Le Harivel.
Extracting the fibres from genista scoparia (broom), and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Fermier de la Provotais.
Improvements in the production of paper pulp, and in bleaching paper pulp and certain fabrics, also an apparatus for cutting wood applicable for carrying out part of the invention. (*Communicated by Marie Anne Pelagie Veronique Cauzique, formerly le Roux.*)	1822	19th July 1861	Michael Henry.
An improved method of preparing flax from old materials for spinning and other purposes. (*Making paper pulp.*)	1844	23rd July 1861	Thomas Gray.
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres.	1894	29th July 1861	Edmond Hamborough Joynson.
A pasteboard, millboard and cardboard medal for advertising purposes in lieu of handbills.	1896	30th July 1861	Thomas Saunderson.
An improved lucifer match and prepared paper for igniting the same.	1910	1st Aug. 1861	Horatio Mearing.
An improvement in treating bones and the manufacture of the products thereof. (*Size for paper-making.*)	2032	15th Aug. 1861	John Cowdery Martin.
Preparation, application and manufacture of peat - (*In place of papier-mâché.*)	2058	19th Aug. 1861	William Henry Smith.
Preparation of pulp for paper - - - (*Communicated by Mademoiselle Jeanne Françoise Marie de Cassan and Monsieur Jean Baptiste Meyer.*)	2096	22nd Aug. 1861	John Henry Johnson.
Manufacture of paper - - - -	2103	22nd Aug. 1861	Thomas Richardson. Robert Irvine.
An improved method of treating the hop plant to obtain a material resembling wool. (*For making paper pulp.*) (*Communicated by Barthélemy Picard.*)	2110	23rd Aug. 1861	Richard Archibald Brooman.
An improved manufacture of manure - - (*Or paper pulp.*)	2159	30th Aug. 1861	Alexandre Jaille.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
An improved combination of chemical and mechanical processes for the conversion of fibrous vegetable matters into paper pulp. (*Communicated by Louis Achille Carteron.*)	2268	12th Sept. 1861	Marc Antoine François Mennons.
Machinery or apparatus employed in the manufacture of paper.	2328	18th Sept. 1861	Edward Partington.
Manufacture of paper - - - -	2348	19th Sept. 1861	Theophilus Redwood.
Improvements in the mode of obtaining certain chemical substances, and in the treatment of vegetable fibre, and in obtaining manurial and other products therefrom - - -	2351	20th Sept. 1861	John Oliver. John Grantham. William Sinnock. Montague Richard Leverson.
An improvement in paper-making machines - -	2480	4th Oct. 1861	George Knox.
An improved method of forming waterproof fabrics by combining paper with woven or spun fabrics.	2506	8th Oct. 1861	Alfred Ford.
The application of a new material in the manufacture of paper, cardboard and yarns - -	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Apparatus employed in reducing straw and other vegetable substances in the manufacture of pulp for making paper.	2562	14th Oct. 1861	Frederick Burnett Houghton.
Obtaining and treating fibrous substances - -	2628	21st Oct. 1861	Ferrar Fenton.
Printing telegraphs - - - - (*Preparing the paper.*)	2725	30th Oct. 1861	William Cook. Henry Cook.
Manufacture of cards for jacquard weaving - (*Communicated by Louis Joseph Fillion.*)	2767	4th Nov. 1861	John Stewart.
A new method of making paper from the cochlearia armoracia or horse radish.	2846	13th Nov. 1861	Thomas Littleton Holt.
Manufacture of starch and of a vegetable sizing powder. (*For sizing paper.*)	2903	19th Nov. 1861	Theophilus Redwood.
Improved compositions to be used in making buttons, beads, miniature and picture frames, and other articles susceptible of being moulded in a plastic material - - - (*From paper or pulp, &c.*)	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.
Improved machinery for cutting up linen, cotton, woollen and other rags, fibrous waste or vegetable substances for various purposes in the industrial arts.	2973	26th Nov. 1861	George Bottomley.
An improved lucifer match and prepared paper for igniting the same.	2988	27th Nov. 1861	Horatio Mearing.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials, and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - - (*Using papier-mâché for making dials.*)	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
Preparation of materials applicable to the manufacture of paper.	3151	16th Dec. 1861	John Willis, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Improvements in the manufacture of paper and card paper or card board, with the object of preventing forgery and alterations in cheques and other documents, and which improvements are also applicable to the manufacture of playing-cards and railway and other tickets - - (*Communicated by Mr. Joseph Prosper Olier.*)	3185	19th Dec. 1861	Alphonse Treuille. François Xavier Traxler.
XI.—Cutting, Folding and Ornamenting Paper and Papier-mâché.			
Improvements in the manufacture and preparation of paper and in the method of printing and otherwise preparing the same.	313	7th Feb. 1861	James Edward Boyd.
Improved machinery for folding paper - - (*Communicated by Daniel Francis Buckley and Bradbury Poor Silley.*)	542	2nd March 1861	William Edward Newton.
A method of simultaneously marking and piercing or perforating plates of metal, card board, paper and other material employed in looms for weaving figured fabrics. (*Communicated by Michel Alcan.*)	561	5th March 1861	Emile Alcan.
Silvering glass and other surfaces - - - (*Paper.*)	619	13th March 1861	John Cimeg.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Manufacturing playing-cards - - -	705	20th March 1861	Marie Joseph Firmin Chappellier.
Manufacture of papier-mâché blank trays - -	851	6th April 1861	Benjamin Knowles.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making flock hanging paper.*)	853	6th April 1861	Thomas Goulston Ghislin.
Imitation of gold and silver embroidery. (*To apply to cardboard.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Apparatus for perforating paper, parchment and other substances - - - -	1127	4th May 1861	John Martin Baab. Friederich Otto Thomas.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*Card and pasteboard.*)	1371	1st June 1861	Thomas Coradine.
Machinery or apparatus for cutting paper or other materials.	1418	6th June 1861	Daniel Nickols.
Improvements in jacquard machines with the object of allowing the substitution of endless paper in lieu of the pasteboard pattern cards hitherto used therein, and in machines for perforating the said paper - - - -	1677	2nd July 1861	Jacques Philippe Eugène Paignon. Joseph Marie Vaudaux. Gaspard Gagnière.
Certain improvements in the manufacture of pawnbrokers' duplicate tickets and in the apparatus connected therewith. (*Perforating.*)	1809	18th July 1861	John Tillotson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Improved apparatus for punching or marking the pattern cards used in weaving figured fabrics.	1862	24th July 1861	Henry Cook.
A new application of certain products to ornamenting tissues, papers and other surfaces.	1866	25th July 1861	Marc Klotz.
Improvements in printing and colouring paper, chintz and other fabrics, and machinery or apparatus for that purpose.	2190	2nd Sept. 1861	Alphonse Nicolas Salcres.
An improved combined book marker and paper cutter.	2748	1st Nov. 1861	Andrew Smith.
Machinery for folding envelopes - - -	2883	16th Nov. 1861	Jonathan Charles Goodall. John Beale.
Apparatus or machinery to be employed in the manufacture of ornamental and useful articles in papier-mâché - - - - -	2936	22nd Nov. 1861	Thomas William Davenport. Samuel Cole.
III.—Paper Hangings.			
Imitation of gold and silver embroidery - - (*To apply to paper hangings.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Machinery or apparatus for printing paper hangings.	1239	15th May 1861	William Mitchell.
Improvements in printing and ornamenting textile fabrics, paper hangings and other materials, and in surfaces and apparatus for such purposes. (*Communicated by Alexandre Adrien Despréaux.*)	3055	5th Dec. 1861	Michael Henry.
PAVING AND ROAD-MAKING; PAVEMENTS.			
Certain improvements in the construction of boxes for containing earth for growing shrubs or trees, which improvements are also applicable for paving, flooring, building and other purposes.	148	19th Jan. 1861	Frederick George Sanders.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For tessellated pavement.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin de Arrieta.
Constructing stable floors - - - -	276	1st Feb. 1861	Thomas Edward Knightley.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For paving and mosaic work.*)	482	25th Feb. 1861	George Clark.
Construction of roadways and tramways - -	555	5th March 1861	Thomas Scott.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAVING, &c.—*continued.*			
Construction of houses and footways - -	624	13th March 1861	Julius Jeffreys.
Constructing roadways under water - -	691	19th March 1861	James Chalmers.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	793	30th March 1861	Joseph Briggs.
Machinery or apparatus for breaking stones and other hard materials. (*For roads.*)	1209	13th May 1861	John Bermingham.
Manufacture of floor tiles and paving blocks - (*Communicated by Sylvain Tokijon.*)	1607	22nd June 1861	John Henry Johnson.
A new system of covering for houses and other buildings and coverings. (*Pavements.*)	1962	7th Aug. 1861	Nicolas Antoine Lesueur.
Improvements in the construction of roadways -	2199	4th Sept. 1861	Thomas Scott.
Machinery or apparatus for making bricks, tiles, drain pipes and other similar articles. (*Paving bricks.*)	2211	5th Sept. 1861	Peter Efferts.
Improvements in railways and in iron pavements and railways combined, parts of which improvements are applicable to the construction of railway chairs and to cast iron pavements for ordinary streets. (*Communicated by Barzillai Coat Smith.*)	2652	23rd Oct. 1861	George Davies.
The use of hydraulic power for the breaking, crushing or pulverizing of quartz, blue stone or other stone or mineral of any description, and the use of a wrought iron lever or jaw in machines for crushing quartz or any other mineral, and the use of steel teeth and steel shield pieces for the levers or jaws in such machines. (*Breaking road metal.*)	2669	25th Oct. 1861	Enoch Chambers.
Improvements in the construction of pneumatic subaqueous tubes for passenger or goods traffic, and in machinery for the manufacture thereof.	2811	9th Nov. 1861	David Cowan.
Method of paving roads and other places - -	3094	10th Dec. 1861	Victor Léon Daguzan.
PEAT.			
An improvement or improvements in treating coal and other bituminous minerals and peat for the purpose of obtaining solid and liquid hydrocarbons therefrom.	36	5th Jan. 1861	William Mattieu Williams.
Improvements in the manufacture of fuel and in apparatus connected therewith.	116	15th Jan. 1861	Antoine Germain Lasserre.
Manufacture of peat fuel - - - -	1491	11th June 1861	Patrick Moir Crane.
Improvements in the manufacture of fuel from peat and in apparatus employed therein, parts of which are applicable to the moulding of bricks, tiles and other like materials.	1592	20th June 1861	Charles Hodgson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PEAT, &c.—*continued.*			
An improved method of partially drying peat before removing the same from the bog.	1593	20th June 1861	Charles Hodgson.
Preparation, application and manufacture of peat -	2058	19th Aug. 1861	William Henry Smith.
Improvements in the material and preparation of the material and apparatus for making potash, pearlash and caustic potash of commerce. (*Turf, peat or bog earth.*)	2238	7th Sept. 1861	Nicholas Doran Proby Maillard.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*Turf for fuel.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
Manufacture of peat - - - - - (*Communicated by Auguste Marcelin Manrique Comte de Lara et du Ren.*)	2412	26th Sept. 1861	William Clark.
Treating peat to render it useful as fuel and for illuminating and metallurgical purposes.	2761	2nd Nov. 1861	George Evans.
PENS, PENHOLDERS, PENCILS AND PENCIL-CASES.			
An improved instrument for writing and printing music.	76	11th Jan. 1861	Paul Laffitte, junior.
An improved instrument for sharpening slate-pencils, black lead pencils, lead pencils, crayons and such like articles.	545	4th March 1861	John James.
An improvement or improvements in ornamenting surfaces. (*Penholders and pencil-cases.*)	575	7th March 1861	William Edward Wiley.
Manufacture of holders or handles for pens, pencils and artists' or painters' brushes - -	590	9th March 1861	Thomas William Davenport. Samuel Cole.
An invention relating to heads for lead pencils, ink erasers and other articles of like character. (*Communicated by Francis Pickard Hale, junior.*)	703	20th March 1861	Levi Lincoln Tower.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For pen and other trays.*)	853	6th April 1861	Thomas Goulston Ghislin.
An improved penholder - - - -	1065	27th April 1861	George G. Ray.
Pen and pencil holders - - - -	1300	22nd May 1861	Jules René Chesneau.
Drawing-materials and apparatus for the use of artists - - - - - - -	1492	11th June 1861	James Duffield Harding. William Henry Winsor.
An improvement or improvements in metallic pens - (*Communicated by Jean Benoit Mallat and Edme Victor Saglier.*)	1798	17th July 1861	Josiah Mason.
A new manufacture of pens or writing instruments	2112	23rd Aug. 1861	William Evans. Edward Concanen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PENS, &c.—*continued.*			
Pens and penholders	2379	24th Sept. 1861	William Edward Wiley.
Improved pens	2388	25th Sept. 1861	Carl Gustav Lenk.
Improvements in the manufacture of metal pens and holders, in tools employed therein and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
An improvement or improvements in ever-pointed pencil-cases.	2659	24th Oct. 1861	Joseph Baker.
Pens and writing instruments	2828	11th Nov. 1861	George Leslie.
An improvement or improvements in penholders	2941	23rd Nov. 1861	Stephen Sansum.
Construction of pencil-cases or holders	2965	26th Nov. 1861	Augustus William Willis.
Penholders (*Communicated by Jean Baptiste Auguste Brasseur.*)	2971	26th Nov. 1861	Charles Stevens.
An improvement in black lead pencils (*Communicated by Humblot Conté.*)	3084	9th Dec. 1861	Richard Archibald Brooman.
An improvement or improvements in pencil-cases and holders for crayons and other solid writing or marking materials, which improvement or improvements may also be applied to crochet needle holders.	3115	12th Dec. 1861	William Edward Wiley.
PETTICOATS, SKIRTS, STAYS, BUSTS, CRINOLINES, MANTLES, RUFFLES, COLLARS AND OTHER LIKE ARTICLES OF LADIES' ATTIRE.			
Bustles or skirt supporters (*Communicated by W. S. and C. H. Thompson.*)	34	5th Jan. 1861	Lemuel Dow Owen.
Skeleton petticoats (*Partly communicated by William Sparks Thomson.*)	295	5th Feb. 1861	George Washington Belding.
An improvement in open work fabrics suitable for ladies' collars, cuffs and such like articles, and for purposes for which perforated paper and cardboard are employed.	299	5th Feb. 1861	Joseph Thomas Wood.
Coating or covering metallic springs or bands for crinolines and other articles of dress.	461	23rd Feb. 1861	John William Wyatt.
Improvements in cravats or coverings for the throat and chest and in the fastenings for the same, which fastenings are applicable to various other parts of dress. (*Communicated by Monsieur Simon Hayen, senior.*)	586	8th March 1861	John Henry Johnson.
Machinery for making frills	603	11th March 1861	William Tillie.
Manufacture of hats, bonnets, waistcoats and trimmings for wearing-apparel. (*Trimmings for ladies' dress.*)	648	15th March 1861	Arthur Granger.
An improvement in or addition to victorines, boas, collars and other like articles of dress for females.	742	25th March 1861	John Trippett Holden.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PETTICOATS, &c.—*continued.*			
A new or improved fastening, which said fastening is applicable to the fastening of windows and also to the fastening of belts, garters, braces and other articles of dress - - - - (*For crinolines.*)	871	9th April 1861	William Westbury. Edward Cooke.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces, and for other purposes.	884	10th April 1861	John Caw, junior.
Certain improvements in the manufacture of piled fabrics - - - - - - (*Ladies' mantles.*)	938	17th April 1861	Thomas Jones. George Mallinson.
Manufacture of woven fabrics applicable to crinoline skirts and petticoats or other similar articles.	963	19th April 1861	James Makinson Brierley.
Looms for weaving stays or corsets and other similar articles. (*Communicated by Alexis Manigot.*)	1003	23rd April 1861	William Clark.
Mode of hardening and tempering crinoline flattened wire or sheet steel. (*Communicated by Mr. Edwin Goodwin.*)	1038	25th April 1861	Robert Gray.
Hardening and tempering steel - - -	1039	25th April 1861	Samuel Fox.
Hooped petticoats or crinolines - - -	1054	26th April 1861	William Griffith.
Manufacture of frills, ruffles or frilled trimmings -	1234	15th May 1861	Alexander Whyte. Malcolm Macdonald.
An improvement in hooped or hoop skirts - - (*Communicated by John Colter Kelley.*)	1459	8th June 1861	Robert Marsden Latham.
Certain improvements in the manufacture of ornamental or fancy ribbons and in the machinery or apparatus connected therewith. (*For trimmings.*)	1609	22nd June 1861	Robert Ormerod.
A new or improved crinoline fastener - -	1613	24th June 1861	Enoch Dance.
Method of fastening shoes, stays, gloves and other wearing-apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
Means or apparatus employed in weaving - - (*Crinoline, &c.*)	1931	3rd Aug. 1861	John Henderson. James Broadley.
A bodice skirt or a new or improved article of female apparel. (*Communicated by Gerard Higgins.*)	2004	12th Aug. 1861	Aaron Salomons.
An improved steel busk or stay fastener - -	2006	13th Aug. 1861	John Harris Elvans.
An improvement in sous-juppe or under petticoats for distending articles of dress and preserving the shape or form thereof.	2048	17th Aug. 1861	Mary Hastelow Randle.
Porte-robes or buttons for holding up the skirts of ladies' gowns.	2098	22nd Aug. 1861	Edouard Landsberg, senior.
Manufacture of ladies' collars, cuffs or other ornamental articles for dress or furniture, to imitate such articles made of lace or embroidery -	2124	26th Aug. 1861	Auguste Lechêne. Charles Nathan.
Fastenings for gloves, belts and other articles - (*For stays.*)	2151	29th Aug. 1861	Victor Alexandre Janvier.
Shirts and chemises - - - - (*Communicated by Madame Sénécal formerly Marguerite Edile Guébin.*)	2168	30th Aug. 1861	William Clark.
Certain improvements in ladies' dress suspenders -	2208	5th Sept. 1861	Charles Edkins.
Machinery for the manufacture of skirts usually called crinoline skirts.	2242	7th Sept. 1861	Herbert Redgate.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PETTICOATS, &c.—*continued.*			
Improvements in the manufacture of figured coloured fabrics and in machinery employed therein. (*India shawls.*) (*Communicated by Edme Germain Bossuat.*)	2458	2nd Oct. 1861	Richard Archibald Brooman.
Covering crinoline wire and other like substances -	2479	4th Oct. 1861	John Beesley.
Certain improvements in connectors and adjusters for connecting and adjusting crinolines.	2532	10th Oct. 1861	James Stevens.
Clasps or fastenings for stay-busks - -	2556	12th Oct. 1861	George Twigg.
Improvements in porte-robes or dress suspenders, and also in apparatus for the suspension of curtains, draperies and other articles - -	2561	14th Oct. 1861	Benjamin Taylor. Charles Edkins.
Connecting and fastening the bands of covered steel or other materials used for crinolines.	2621	21st Oct. 1861	Colin McDougall.
Manufacture of woven fabrics - - - (*Shawls.*)	2717	30th Oct. 1861	Richard Rowntree Priestley.
Certain improvements in metallic clips or joints for holding, connecting and adjusting crinolines and other like purposes - - - - -	2745	1st Nov. 1861	Myer Myers. Maurice Myers. William Hill.
Hooped skirts - - - - - - -	2759	2nd Nov. 1861	Samuel Osborne.
Improvements in the manufacture of pointed trimming and in the machinery for manufacturing pointed trimming.	2833	11th Nov. 1861	Chauncy Orrin Crosby.
A new article of female wearing-apparel to be worn on the leg.	2857	13th Nov. 1861	Charles Edmund Wilson.
Improvements in the making or manufacturing of certain parts of garments for either sex, likewise in the manner of preparing the same for sale, as also an improved button to be attached to garments without sewing. (*Linings, trimmings, &c.*)	2890	18th Nov. 1861	James Moore Clements.
Manufacture of collars, shirt fronts, cuffs, hats, bonnets, vests and other articles of wearing-apparel.	2923	21st Nov. 1861	James Harrow Jeffs.
Collars for gentlemen's, ladies' and children's wear	3020	30th Nov. 1861	Edward Price.
An improved system or method of cutting out ladies' dresses.	3059	6th Dec. 1861	Charlotte Craddock.
Garments for gentlemen and ladies' wear - -	3099	10th Dec. 1861	David Vogl.
Improved means for raising and supporting ladies' dresses - - - - - -	3145	14th Dec. 1861	Colin McDougall. Joseph Crane.
Improvements in collars for gentlemen's, ladies' and children's wear.	3189	20th Dec. 1861	Charles Edmund Wilson.
Improvements in stays - - - - -	3216	24th Dec. 1861	Charlotte Smith.
Improvements in stays - - - - -	3218	24th Dec. 1861	Charlotte Smith.
Improvements in the method of treating steel for the manufacture of crinoline.	3236	26th Dec. 1861	Henry Dawes.
A new method and machinery for covering springs used for petticoats and other articles. (*Communicated by Antoine Rameau.*)	3266	31st Dec. 1861	Frederick Tolhausen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PHOTOGRAPHY AND PHOTOGRAPHIC APPARATUS; STEREOSCOPES.			
Photography - - - - - - (*Communicated by Gaspard Félix Tournachon called Nadar.*)	508	27th Feb. 1861	Michael Henry.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells, and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.
Producing photographic pictures - - - (*Communicated by Adolphe Fargier and Nicolas Charavet.*)	955	18th April 1861	Richard Archibald Brooman.
Photography - - - - - -	1074	29th April 1861	Henry Dixon.
Photographic printing upon the interior of any glass or other transparent vessel - -	1089	1st May 1861	Thomas Hooman. John Maliszewski.
A photographic apparatus having for object to reproduce the successive phases and shiftings of a motion.	1457	8th June 1861	Henry Du Mont.
"Photographic" albums - - - - -	1756	12th July 1861	Thomas John Smith.
Improved apparatus for taking photographs -	1855	24th July 1861	Henry Neville.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones, and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.
Certain improvements in the manufacture of card, needle, pin and other cases, and in the application to such articles of a new branch of ornamental art not hitherto applied to such goods.	1986	9th Aug. 1861	Henry Chatwin.
An improved camera for taking photographic portraits and instantaneous pictures.	2073	20th Aug. 1861	Thomas Sutton.
An improved microscope to be used for exhibiting photographic views and productions.	2347	19th Sept. 1861	René Prudent Patrice Dagron.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes.	2434	30th Sept. 1861	Benjamin George George.
Certain tickets or passes for railway and other purposes.	2513	8th Oct. 1861	John Edwin Grisdale.
Photograph albums - - - - - (*Communicated by Claude Mamès Augustin Marion.*)	2739	1st Nov. 1861	William Clark.
Ornamenting the covers of photographic albums, books, writing-cases and other like articles.	2781	5th Nov. 1861	John Peter Bourquin.
Albums for containing photographic and other pictures. (*Communicated by Auguste Marion.*)	2860	13th Nov. 1861	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PHOTOGRAPHY, &c.—*continued.*			
A new or improved method of protecting and preserving photographic and other prints, water color drawings and other works of art, from injury and decay.	2924	21st Nov. 1861	George Henry Polyblank.
An improvement or improvements in ornamenting surfaces.	2996	27th Nov. 1861	Samuel Amphlet.
Improvements in albums or books for containing and showing photographic and other pictures, and in slides for the same. (*Communicated by Henry Strauss.*)	3044	4th Dec. 1861	Richard Archibald Brooman.
A new or improved combination of microscopic photographs and lenses with certain precious stones or imitations thereof. (*Communicated by Louis Henri Bouillette and Jean Amable Hyvelin.*)	3080	9th Dec. 1861	Marc Antoine François Mennons.
An improvement in forming the leaves of albums and books for containing photographic portraits and views. (*Communicated by Simeon Schloss.*)	3105	11th Dec. 1861	Joseph Schloss.
An improved plateholder for photographic purposes	3147	14th Dec. 1861	William Elliott Debenham
Improvements in envelopes for containing photographic portraits and pictures. (*Communicated by Simeon Schloss.*)	3232	26th Dec. 1861	Joseph Schloss.
PICTURES, PICTURE-FRAMES; EXHIBITING VIEWS.			
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*For picture-frames.*) (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For picture-frames.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Manufacture of frames suitable for containing photographic and other portraits and pictures.	360	13th Feb. 1861	William Brown.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For picture-frames.*)	853	6th April 1861	Thomas Goulston Ghislin.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces and for other purposes.	884	10th April 1861	John Caw, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PICTURES, &c.—*continued.*			
Producing photographic pictures - - - (*Communicated by Adolphe Fargier and Nicolas Charavet.*)	955	18th April 1861	Richard Archibald Brooman.
Manufacture of letters, designs and other articles of mica variously coloured or metallized. (*For pictures.*) (*Communicated by Messrs. Thomas Lamie-Murray and Holthausen, Brothers.*)	1549	17th June 1861	William Clark.
Stage scenery and apparatus - - - (*Communicated by Mr. Theophile Foucault.*)	1784	15th July 1861	William Clark.
Mitre boxes and shooting boards - - - (*For mitreing mouldings for picture-frames.*)	1880	27th July 1861	Robert Elmy Garrood.
An improved camera for taking photographic portraits and instantaneous pictures.	2073	20th Aug. 1861	Thomas Sutton.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames and other ornamental and useful purposes. (*To picture-frames.*) (*Communicated by Mr. Frederick Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Application of mica to ornamental and other purposes. (*For covering frames.*) (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.
An improved microscope to be used for exhibiting photographic views and productions.	2347	19th Sept. 1861	Réné Prudent Patrice Dagron.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes.	2434	30th Sept. 1861	Benjamin George George.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed. (*For picture-frames.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Improved means and apparatus for producing scenic effects.	2500	7th Oct. 1861	William Callcott.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - (*Picture-frames.*)	2521	9th Oct. 1861	Henry Bentinck Counhupe. Frank Higgins Waltham.
Improvements in porte-robes or dress suspenders, and also in apparatus for the suspension of curtains, draperies and other articles - - - (*Pictures on walls.*)	2561	14th Oct. 1861	Benjamin Taylor. Charles Edkins.
Albums for containing photographic and other pictures. (*Communicated by Auguste Marion.*)	2860	13th Nov. 1861	Richard Archibald Brooman.
Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Picture-frames.*) (*Communicated by Robert Marcher.*)	2912	20th Nov. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PICTURES, &c.—*continued.*			
A new or improved method of protecting and preserving photographic and other prints, water color drawings and other works of art, from injury and decay.	2924	21st Nov. 1861	George Henry Polyblank.
Improved compositions to be used in making buttons, beads, miniature and picture-frames, and other articles susceptible of being moulded in a plastic material - - - - - -	2935	22nd Nov. 1861	Thomas William Davenport. Samuel Cole,
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*For picture rods and frames.*)	2944	23rd Nov. 1861	John Weems.
Machinery or apparatus for preparing oval picture-frames. (*Communicated by Robert Marcher.*)	2959	25th Nov. 1861	John Henry Johnson.
Improvements in albums or books for containing and showing photographic and other pictures, and in slides for the same. (*Communicated by Henry Strauss.*)	3044	4th Dec. 1861	Richard Archibald Brooman.
Frames used for displaying trade show-cards, pictures or other similar devices.	3050	5th Dec. 1861	John Wilson.
Improvements in envelopes for containing photographic portraits and pictures. (*Communicated by Simeon Schloss.*)	3232	26th Dec. 1861	Joseph Schloss.
PILE-DRIVING.			
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile-driving and other such like machines and purposes - - -	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Ground or earth screws - - - -	2914	20th Nov. 1861	Frederick Johnson.
PILLARS, COLUMNS, POSTS, SLABS, STATUARY.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For slabs.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Wrought iron beams or girders and columns -	85	11th Jan. 1861	William George Woodcock.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For statuary.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PILLARS, &c.—*continued.*			
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material.	482	25th Feb. 1861	George Clark.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stone-ware and plastic clays, adapted for the construction of fireproof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
An improved method of collecting letters, newspapers, and other mail matters in cities and towns. (*Communicated by John B. Murray.*)	866	9th April 1861	James Wright.
Improvements in and applicable to the manufacture of slabs, panels and other forms or articles in paper or paper pulp.	1213	13th May 1861	James Deakin.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For statues, busts, &c.*)	1269	18th May 1861	Archibald Campbell Ponton.
An improved method of manufacturing bricks and slabs impervious to damp, for preventing moisture rising in pavements and the walls in houses and other buildings.	1280	20th May 1861	William Charlton Forster.
Pillars for supporting the roof in coal and other mines.	1432	6th June 1861	William Oliver Johnston.
Posts or supports for telegraph wires - -	1512	12th June 1861	Robert Jobson. Cromwell Fleetwood Varley.
Certain improvements in the manufacture of metallic posts for supporting telegraph wires, and which said improvements are also applicable for other purposes.	1539	15th June 1861	Ferdinand Potts.
Apparatus for cutting slates and slabs - -	1911	1st Aug. 1861	Robert Harrison.
Certain improvements in the construction of straining pillars or posts for wire or other strained fencing, and in the apparatus to be adapted thereto for straining or tightening the wires or strands.	1942	5th Aug. 1861	John Potter.
Application of mica to ornamental and other purposes. (*For covering pillars.*) (*Communicated by Messrs. Louis Augustin Alexandre Cavenne and Frédéric Holthausen.*)	2306	16th Sept. 1861	William Clark.
Improvements in the manufacture of stones, bricks, tiles, slabs, statuary and such like materials, and in the method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - - - - -	2335	19th Sept. 1861	James Cane Coombe. James Wright.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PILLARS, &c.—*continued.*			
Rendering columns, girders, doors, shutters and other parts of buildings fire-proof.	2449	1st Oct. 1861	William Stratford Hogg.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - - - (*Substitutes for monumental slabs, grave-stones, &c.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Improvements in the moulds or chills employed in casting corner blocks, dovetail grooves and other parts of metal bedsteads and other like articles, in frames for carrying such moulds, and in tubes for the pillars of bedsteads and other like articles - - - - - - -	2919	20th Nov. 1861	Edward Peyton. William Fothergill Batho.
PINS AND NEEDLES.			
An improved method of treating needles used in sewing and other machines, applicable also to those parts of such machines that hold the needles, and applicable to all other descriptions of needles, and to scissors and to thimbles treated in like manner.	416	20th Feb. 1861	Benjamin Nicoll
Certain new and useful improvements in machinery for sewing cloth or other material.	1530	14th June 1861	Albert Francis Johnson.
Improvements in the pointing of steel or other wire for teeth of cards and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.
An improved needle used in the manufacture of looped fabrics.	1787	16th July 1861	John Scott Wells.
Certain improvements in the manufacture of card, needle, pin, and other cases, and in the application to such articles of a new branch of ornamental art not hitherto applied to such goods.	1986	9th Aug. 1861	Henry Chatwin.
Needles - - - - - - (*Communicated by Thomson Hankey Alexander.*)	2262	12th Sept. 1861	George Henry Birkbeck.
Manufacture of pins for hair, dress, jewellery and other purposes.	2368	21st Sept. 1861	Spendlove Desborough.
An improvement or improvements in the manufacture of certain descriptions of needles.	2385	24th Sept. 1861	James Cottrill.
An improvement or improvements in pencil-cases and holders for crayons and other solid writing or marking materials, which improvement or improvements may also be applied to crochet needle holders.	3115	12th Dec. 1861	William Edward Wiley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, TUBES AND SYPHONS; TOBACCO-PIPES; JOINING PIPES.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Tubing.*)	14	3rd Jan. 1861	William Coles Fuller, James Archibald Jaques, John Americus Fanshawe.
A combined heating and ventilating pipe to be made elliptically or otherwise.	53	9th Jan. 1861	William Taylor.
Connecting gas and other pipes - - -	82	11th Jan. 1861	Alphonse Réné Le Mire Normandy.
Core barrels for casting pipes, cylinders, retorts and other like hollow articles - -	194	24th Jan. 1861	Thomas Gibson, William Knighton, Henry Knighton.
Machinery or apparatus for pulverizing clay and other materials. (*For making tubes.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Improvements in umbrella and parasol furniture and in the means or apparatus employed in treating umbrella and parasol furniture, parts of which are also applicable in heating steel wire, ribs, rods or tubes for other purposes - -	277	2nd Feb. 1861	George Holme Spencer, Richard George Cook.
Capsules or covers for the necks or ends of jars, bottles and other vessels and hollow tubes or bodies.	334	9th Feb. 1861	Josiah George Jennings.
Syphons for drawing off liquids from casks and other vessels. (*Communicated by Henry Cazades.*)	352	12th Feb. 1861	Nathan Frankenstein.
Machinery or apparatus for the manufacture of bitumenized paper pipes and other similar articles.	392	16th Feb. 1861	James Horn.
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Pipes.*)	470	23rd Feb. 1861	Thomas Spencer.
Construction of tobacco pipes - - -	494	26th Feb. 1861	William Parish.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - (*Forming hose or pipes.*)	569	6th March 1861	Hugh Adams Silver, Henry Griffin.
Apparatus for making connections with gas and water mains.	635	14th March 1861	George Simmons.
Steam-boilers - - - - -	690	19th March 1861	George William Hawksley, Mathew Wild.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.—*continued.*			
Certain improvements in pipes for smoking tobacco	756	26th March 1861	Samuel Lamb.
Improvements in and connected with steam-engines - - - - - - (*Shaping condenser tubes.*)	759	26th March 1861	Thomas Davison. Robert Paterson.
An improvement or improvements in ornamenting metallic tubes.	826	4th April 1861	James Thomas Grice.
Improvements in the manufacture of nails, railway spikes or pins and gas tube fastenings, and in machinery employed in the said manufacture -	839	5th April 1861	David Brown. Noah Fellows. Edward Jones. William Brown.
Manufacture of the posts and joints or connections of bedsteads and other articles of furniture.	847	5th April 1861	John Hutson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For pipes and tubes.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Syphons for carrying off the condensed water from steam pipes.	941	17th April 1861	Joseph Vickerman.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas. (*Making gas tubing.*)	946	17th April 1861	Henry Alexander Frederick Duckham.
Jointing or connecting pipes - - -	965	19th April 1861	Robert Maclaren.
An improved process for manufacturing india-rubber pipes.	981	20th April 1861	Jean Baptiste Jules Noirot.
Improvements in certain kinds of cornice poles and curtain rods, and in the runners used in cornice poles and curtain rods, and in the manufacture of tubing to be made into the said cornice poles and curtain rods - - - - -	993	22nd April 1861	Edward Douglas Bourne. Paul Davis.
Arrangements or apparatus for preventing water pipes from bursting by the action of frost.	1026	24th April 1861	Daniel Stone.
Steam-engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
Steam and water tight joints for fixing tubes in plates such as are used for surface condensers, distillers, refrigerators, vessels for heating feed water, or tubular boilers. (*Communicated by Horatio Allen.*)	1081	1st May 1861	William Horn.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses.	1233	14th May 1861	John Chedgey.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For gas, water and soil pipes.*)	1269	18th May 1861	Archibald Campbell Ponton.
Coupling or connecting joints of pipes for the conveyance of liquid, fluid or solid bodies. (*Communicated by Mr. J. B. Lavril.*)	1291	21st May 1861	Marc Antoine François Mennons.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*For manufacture of metal tubes.*)	1371	1st June 1861	Thomas Coradine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.—*continued.*			
Improvements in the fire bridges and tubes of steam-boilers, and in the manner of applying the same.	1442	7th June 1861	Robert Harlow.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy.	1446	7th June 1861	Samuel Bennett, junior.
Posts or supports for telegraph wires - - (*Tubes of cast iron.*)	1512	12th June 1861	Robert Jobson. Cromwell Fleetwood Varley.
An improved piston - - - -	1602	21st June 1861	William Hobson. Thomas Cavill.
An improved mode of treating tubes used for posts for metallic bedsteads and other purposes, and in the machine for producing the same, and which said machine is also applicable for cutting out and piercing articles of sheet metal, such as washers, metallic bucket ears and other such like articles - - - - - - -	1672	1st July 1861	Ferdinand Potts. Richard Cox.
Manufacture of boxes, cases, tubes, rings and such like articles, and machinery for the same - -	1716	6th July 1861	James Roberts Black. Henry William Spratt.
Improvements in forming bends and other forms or parts of non-metallic pipes, and in machinery or apparatus employed for such purposes, part of which improvements are applicable also to the formation of bends or curves in some kinds of metallic pipes - - - - -	1924	3rd Aug. 1861	George Bish. James Dredge.
Apparatus for protecting and arranging water pipes and withdrawing water therefrom, and preventing injury thereto by frost - - -	1927	3rd Aug. 1861	George Fowler Jones. James Jones.
Manufacture of metallic tubes - - -	2020	14th Aug. 1861	François Durand.
Kilns for baking bricks, tiles and other similar articles.	2021	14th Aug. 1861	Alcidalis Auguste Romain Damoiseau.
Manufacture from steatite of journals, axle boxes, and bearings for machinery axles and spindles to work in, smoking-pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Preparation, application and manufacture of peat - (*For tobacco pipes, water pipes, &c.*)	2058	19th Aug. 1861	William Henry Smith.
Improvements in apparatus for drilling and tapping gas and water mains and pipes, and in preventing leakage therefrom.	2071	20th Aug. 1861	John Somerville.
Manufacture of smoking pipes and cigar tubes, and preparing, washing, coating, covering or otherwise impregnating them with aromatic substances in a solid, liquid or aëriform state.	2114	24th Aug. 1861	Michael Hyams.
Steam-boilers and surface condensers - - (*Forming and packing condenser tubes.*)	2207	5th Sept. 1861	John Martin Rowan. Thomas Rogers Horton.
Machinery or apparatus for making bricks, tiles, drain pipes and other similar articles.	2211	5th Sept. 1861	Peter Effertz.
An improved method of coating the interior surface of lead and lead composition pipes with tin or its alloys.	2213	5th Sept. 1861	Frederick Bennett.
Preparing the ends of welded tubes previous to their being fixed in plates.	2230	6th Sept. 1861	John James Russell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.—*continued.*			
Apparatus for preventing waste of water from service pipes or cisterns.	2265	12th Sept. 1861	Charles Greaves.
Machinery for making bricks, pipes and tiles -	2271	13th Sept. 1861	Joseph Oliver.
Manufacture of curved and angular paper tubes and pipes.	2287	14th Sept. 1861	William Henry Crispin.
Improvements in the manufacture of safety fuses, parts of which are applicable to the manufacture of pipes and tubes of lead and other soft metal, gutta-percha, caoutchouc, bitumen and earthenware.	2382	24th Sept. 1861	Thomas Davey.
Improvements in the manufacture of metal tubes for bedsteads and other purposes, and in the machinery employed therein.	2430	28th Sept. 1861	Charles Comer, junior.
Improvements in joining pipes and tubes, or in forming or securing the joints thereof. (*Communicated by Jules Lemoine.*)	2444	1st Oct. 1861	Oscar Octave Lesourd.
Improvements in the manufacture of cast steel and other metal tubes and in the machinery or apparatus employed therein, parts of which improvements are applicable to the manufacture of gun barrels and ordnance, and to the rifling of same - - - - - - -	2533	10th Oct. 1861	Louis Christoph. William Hawksworth. Gustavus Palmer Harding.
Improved machinery for the manufacture of metal tubes and cylinders, which is also applicable to other useful purposes - - - - -	2614	19th Oct. 1861	James Bourne. Edward Kidd.
Improvements in preventing and removing deposit in steam-boilers and other vessels, and in the apparatus employed therein. (*And in water pipes.*) (*Communicated by Joseph Harrison.*)	2654	23rd Oct. 1861	John Henry Johnson.
Apparatuses for generating, superheating and condensing steam - - - - - -	2671	25th Oct. 1861	Edward Green. Edward Green, junior.
Certain improvements in machinery for making partial tubes for the spindles of spinning and other machines.	2685	26th Oct. 1861	John Sidebottom.
Joints or connections for metal and other pipes and tubes.	2691	26th Oct. 1861	William Taylor.
An improvement or improvements in the manufacture of pulley rods for curtains, commonly called French pulley rods.	2723	30th Oct. 1861	Robert Walter Winfield.
Certain improvements in the construction of cables or chains for telegraphic and other purposes and for machinery connected therewith. (*Tubes.*)	2755	2nd Nov. 1861	Thomas Walker.
Improvements in machinery or apparatus for making pipes and other articles of earthenware, and in the form of pipes for gas, sewage and other purposes - - - - - - (*Communicated by Alfred Delafol.*)	2763	2nd Nov. 1861	Thomas Spencer. Thomas Robinson.
Apparatus for communicating from one part of a railway train to another and for coupling pipes	2773	5th Nov. 1861	James Livesey.
Preparing and treating gutta-percha and india-rubber. (*Making hose or pipes.*)	2800	7th Nov. 1861	William Albert Shepard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.—*continued.*			
Improvements in the construction of pneumatic sub-aqueous tubes for passenger or goods traffic and in machinery for the manufacture thereof.	2811	9th Nov. 1861	David Cowan.
Improvements in the manufacture of cast iron pipes and similar articles, and in apparatus to be used therein.	2827	11th Nov. 1861	David Yoolow Stewart.
Construction of steam or other vapour and water or other liquid tight joints. (*Communicated by Joseph Harrison.*)	2843	12th Nov. 1861	John Henry Johnson.
An improved instrument for cutting pipes and bars of metal.	2868	14th Nov. 1861	William Heap.
Improvements in the moulds or chills employed in casting corner blocks, dovetail grooves and other parts of metal bedsteads and other like articles, in frames for carrying such moulds, and in tubes for the pillars of bedsteads and other like articles - - - - - - -	2919	20th Nov. 1861	Edward Peyton. William Fothergill Batho.
Improvements in the manufacture of metallic tubes and in coating or plating metals.	2944	23rd Nov. 1861	John Weems.
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
Improvements in paper tubes and in the means or machinery for making or manufacturing the same. (*See* "BOBBINS.")	3038	4th Dec. 1861	Charles Crabtree.
Apparatus used in the manufacture of taper tubes - - - - - - -	3066	6th Dec. 1861	John James Russell. Burdett Lambton Brown.
Machinery for making bricks, tiles, pipes and other articles formed of plastic materials -	3104	11th Dec. 1861	William Carter. Stafford Percy.
A new process for colouring smoking pipes -	3273	31st Dec. 1861	Jean Baptiste Cretal.
For Cop Tubes, *see* "BOBBINS."			
PISTONS AND PISTON PACKINGS.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Rotary engines applicable to be worked by water, steam or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
Steam-engines - - - - - -	228	28th Jan. 1861	James Alfred Shipton.
A mode of greasing pistons and slide valves even in course of working, applicable to all sorts of machines having the same.	287	4th Feb. 1861	Just Sebastian Larue.
Improvements in the method of manufacturing and in the mode of constructing and forming pistons and piston-rods - - - -	374	13th Feb. 1861	Abraham Ripley. William Henry Stevenson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PISTONS, &c.—*continued.*			
Certain improvements in metallic pistons	379	14th Feb. 1861	James Garforth.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Pistons for pumps, steam-engines or other purposes (*Communicated by Narcisse Ponche Joseph Scellier and Marie Pierre Andre Brasseur.*)	559	5th March 1861	George Henry Birkbeck.
Improvements in the pistons of steam-engines and in the buckets and plungers for pumps.	573	6th March 1861	Joseph Hodgson.
Apparatus for lubricating the piston rods, pistons and cylinders of steam-engines and other frictional surfaces of machinery	616	13th March 1861	Benjamin Grundy. Samuel Andrew.
Steam-engines and boilers (*Oiling pistons.*)	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in steam-engines and boilers and in apparatus connected therewith.	786	30th March 1861	John Cass.
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
Manufacture of wind musical instruments in brass or other metal to which pistons are applicable.	1761	13th July 1861	Pierre Jean De Rette.
Lamps	1793	16th July 1861	William Palmer.
Steam-engines, boilers, furnaces and apparatus applicable thereto	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Hot air engines	1818	19th July 1861	Philander Shaw.
Pumps applicable to steam and other fire-engines	1925	3rd Aug. 1861	Moses Merryweather. Richard Moses Merryweather.
Improvements in hammers to be worked by steam or other elastic fluid and in anvils for the same.	2519	9th Oct. 1861	John Norman.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
Steam hammers	2611	19th Oct. 1861	Thomas Fearnley.
Apparatus for measuring fluids	2635	22nd Oct. 1861	Herbert Frost.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors (*Air pump piston.*)	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
Rotary engines (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Improved means of rendering steam tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus, for the rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines	3045	4th Dec. 1861	Abraham Pullan. William Lake.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PISTONS, &c.— *continued.*			
Improvements in locomotive engines, parts of which improvements are also applicable to marine and stationary engines.	3120	12th Dec. 1861	Joseph Dominique Jobin.
Improvements in the construction of boilers or generators for steam-engines and other uses, applicable also to evaporators, and in pumps used therewith or otherwise used, some of which improvements in pumps are applicable to pistons and piston rods generally.	3123	13th Dec. 1861	Stephen Barber Hewett.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam-engines, and for an improved steam trap.	3235	26th Dec. 1861	Richard Needham.
PLANTS, SEA-WEEDS, &c. (*Treatment of.*)			
Preparing, applying, and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista, and armyllideæ to further new purposes of manufacture, and certain modes to effect the same.	853	6th April 1861	Thomas Goulston Ghislin.
Treatment of sea-weeds for the purpose of obtaining therefrom certain valuable products.	1611	22nd June 1861	James Smith McArdle.
Extracting the fibres from genista scoparia (broom) and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Fermier de la Provotais.
An improved process and improved machinery for obtaining fibres from the stalks or leaves of fibre yielding plants. (*Communicated by James Mallory and Gelston Sanford.*)	1802	17th July 1861	Alfred Vincent Newton.
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres.	1894	29th July 1861	Edmond Hamborough Joynson.
Preparation of pulp for paper - - - (*Communicated by Mademoiselle Jeanne Françoise Marie de Cassan and Monsieur Jean Baptiste Meyer.*)	2096	22nd Aug. 1861	John Henry Johnson.
An improved method of treating the hop plant to obtain a material resembling wool. (*Communicated by Barthélemy Picard.*)	2110	23rd Aug. 1861	Richard Archibald Brooman.
An improved combination of chemical and mechanical processes for the conversion of fibrous vegetable matters into paper pulp. (*Communicated by Louis Achille Carteron.*)	2268	12th Sept. 1861	Marc Antoine François Mennons.
An improved material particularly adapted for the scouring, cleansing and fulling of woollen or other cloths. (*Iceland moss.*)	2384	24th Sept. 1861	James Fawcett.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hard-wood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLANTS, &c.—*continued.*			
The application of a new material in the manufacture of paper, cardboard and yarns	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Obtaining and treating fibrous substances	2628	21st Oct. 1861	Ferrar Fenton.
Improvements in the manufacture of printed yarns and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads.	2842	12th Nov. 1861	William Tongue.
A new method of making paper from the cochlearia armoracia or horse radish.	2846	13th Nov. 1861	Thomas Littleton Holt.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses.	2880	15th Nov. 1861	Werner Staufen.
A new or improved method of treating teazles or thistles to be used in the teazling of cloths and stuffs and otherwise. (*Communicated by Adolphe André Gohin.*)	3106	11th Dec. 1861	Richard Archibald Brooman.
Manufacture of textile materials (*Communicated by Alois Chevalier Auer de Welsback.*)	3153	16th Dec. 1861	George Davies.
Improvements in the manufacture of certain descriptions of woven, looped and bobbin-net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
Improvements in the manufacture of umbrellas and parasols. *See also* "FIBRES."	3262	31st Dec. 1861	William Tongue.
PLAYING-CARDS.			
Manufacturing playing-cards	705	20th March 1861	Marie Joseph Firmin Chappellier.
Improvements in the manufacture of paper and card paper or card board with the object of preventing forgery and alterations in cheques and other documents, and which improvements are also applicable to the manufacture of playing-cards and railway and other tickets (*Communicated by Mr. Joseph Prosper Olier.*)	3185	19th Dec. 1861	Alphonse Treuille. François Xavier Traxler.
PLOUGHING, DIGGING, CLOD-CRUSHING, LAND-ROLLING, HARROWING; AGRICULTURAL IMPLEMENTS; TILLING AND CULTIVATING LAND; WEEDING.			
Rotary spading and digging machines	154	19th Jan. 1861	Donald Mann.
Means or apparatus used in ploughing, tilling or cultivating land	205	25th Jan. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.
Construction of windlasses and implements applicable to steam cultivation	484	25th Feb. 1861	James Howard. Edward Tenney Bousfield.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLOUGHING, &c.—*continued.*			
An improved agricultural implement for cultivating land and for sowing seed. (*Partly communicated by Guiden Huntington.*)	528	1st March 1861	Levi Lemon Sovereign.
Propelling and steering carriages and also ploughs and other agricultural implements.	636	14th March 1861	William Hodson.
Machines for breaking up and cultivating land -	641	15th March 1861	Bernhard Samuelson.
Ploughs - - - - - - - (*Communicated by Mr. Hautavoine.*)	649	15th March 1861	George Dixon.
Improved agricultural implements - - - (*Communicated by Louis Jacques Chateau.*)	666	16th March 1861	Charles Stevens.
Construction of harrows - - - -	737	23rd March 1861	John Spencer.
Machinery for agricultural purposes - -	818	3rd April 1861	Thomas Edward Wilson.
Constructing the framing of various kinds of agricultural implements. (*See* "FOOD FOR CATTLE.")	1009	23rd April 1861	Edward Hammond Bentall.
Improvements in engines and implements for ploughing and cultivating land, parts of which improvements are also applicable to other purposes.	1125	4th May 1861	William Collett Homersham.
Means or apparatus for breaking or opening land -	1132	6th May 1861	George Ager.
Cultivators, ploughs and apparatus used therewith when cultivating and tilling land.	1219	13th May 1861	William Smith.
Ploughs and other agricultural implements - -	1221	13th May 1861	Richard Hornsby, junior.
Apparatus to be employed in steam cultivation -	1232	14th May 1861	James Howard. Edward Tenney Bousfield.
Implements for cultivating land, suitable to be worked by steam or other power.	1252	16th May 1861	Charles Clay.
Tractomotives or engines for running upon earth or on common roads. (*For tilling.*) (*Communicated by Mr. Simon Stevens.*)	1279	18th May 1861	Benjamin Franklin Stevens.
Construction of locomotive engines - - (*Agricultural.*)	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
Machinery or apparatus for tilling or cultivating land.	1296	21st May 1861	William Tasker, junior.
Ploughs - - - - - -	1301	22nd May 1861	Henry Bouthillier De Beaumont.
Horse rakes and harrows - - - -	1349	30th May 1861	Charles Garrood.
Cultivators and horse hoes - - - -	1381	1st June 1861	Charles Garrood.
Improvements in implements for pulverizing, ploughing and grubbing land and in applying motive-power for working agricultural implements, parts of which improvements are applicable to condensing engines - - -	1402	4th June 1861	James Lamb Hancock. Frederick Lamb Hancock.
Machinery or implements for cultivating land by steam power.	1409	4th June 1861	John Allin Williams.
Certain improvements in chain harrows for harrowing land.	1526	13th June 1861	William Bayliss.
Improvements in implements for tilling and cultivating the soil, and in boilers for supplying steam to engines for driving the same, which latter improvements are applicable to boilers generally and especially to boilers of traction engines.	1533	14th June 1861	George Leach.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLOUGHING, &c.—*continued.*			
Machinery for giving motion to ploughs, cultivators and other agricultural implements.	1540	15th June 1861	William Smith.
Steam-engines and machinery for giving motion to agricultural implements and other machines.	1569	18th June 1861	Joseph Edward Kirby.
Machines for ploughing or tilling land by steam power.	1628	25th June 1861	John Fowler, junior.
Machinery for drilling and hoeing land - -	1735	9th July 1861	Alfred Priest. William Woolnough, junior.
Apparatus for applying salt or other material to the roots of weeds.	1752	11th July 1861	Thomas Reeves, junior.
Improvements in horse rakes and cultivators, and in wheels for the same and other carriages -	1767	13th July 1861	Thomas Smith. George Taylor.
Machinery applicable to steam cultivation - -	1483	10th June 1861	Robert Romaine.
An improved winding apparatus particularly adapted for steam ploughing, winding at pits, quarries and other such like purposes - -	1821	19th July 1861	William Savory. Paul Haines Savory.
Machinery for digging or turning up soil, mowing, reaping and other agricultural purposes.	2060	19th Aug. 1861	William Firth.
Agricultural implements for grubbing and cultivating land.	2078	20th Aug. 1861	Nicholas Fisher.
An improved agricultural implement for rolling ridges and furrows or straight work.	2081	21st Aug. 1861	Thomas Lambert.
Ploughs - - - - - - (*Communicated by Martin Buck.*)	2155	30th Aug. 1861	Lemuel Dow Owen.
Apparatus for tilling land by steam power - -	2169	31st Aug. 1861	William Hensman. William Hensman, junior.
Improvements in mechanism or apparatus for ploughing and cultivating the land by steam and other power.	2264	12th Sept. 1861	William Steevens.
A new system of cultivating land and for preventing the disastrous effects of inundations.	2318	17th Sept. 1861	Frederick James Eugene Alexander Gigault D'Olincourt.
Machinery or apparatus for cutting and turning up the soil of land for cultivation.	2354	20th Sept. 1861	Charles Perman.
Horse rakes - - - - - -	2418	27th Sept. 1861	Samuel Rowsell.
An improved steam digging machine - -	2452	2nd Oct. 1861	Denis Rérolle.
Improvements in the construction of ploughs, drills, scarifiers and such like agricultural implements, the said improvements relating to the mode of guiding or steering the same.	2487	5th Oct. 1861	John Lansley.
Endless railways - - - - - (*Applied in ploughing.*)	2568	15th Oct. 1861	John Gilbert.
Ploughs - - - - - -	2630	21st Oct. 1861	Nicholas Doran Proby Maillard.
An improvement in the construction of harrows -	2617	19th Oct. 1861	William Colborne Cambridge.
Improvements in machinery for digging and cultivating the soil, and in steam-engines connected therewith and for other agricultural purposes.	2647	23rd Oct. 1861	John William Wilson.
Machinery used when ploughing, tilling or cultivating land by steam power - -	2753	2nd Nov. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLOUGHING, &c.—*continued.*			
Construction of horse hoes	2802	8th Nov. 1861	Thomas Churchman Darby.
Manufacture of hoes, adzes or other similar articles	2816	9th Nov. 1861	Sam Hague.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Cultivators, horse hoes and horse rakes	3019	30th Nov. 1861	John Cooper. Charles Garrood.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Ploughs	3053	5th Dec. 1861	William Busby.
Construction of horse hoes	3063	6th Dec. 1861	William Smith.
Improvements in lawn mowing, rolling and collect-machines	3201	20th Dec. 1861	Thomas Green. Willoughby Green. Robert Mathers.
PRESERVING AND HARDENING WOOD, METAL, STONE, SKINS AND OTHER SUBSTANCES.			
Preserving organic substances (*Raw hides, &c.*)	46	8th Jan. 1861	William Rattray.
Improvements in hardening the surfaces of the rails of railways and the surfaces of the tyres of railway wheels, and in charring the surfaces of timber to be used for railway sleepers and other purposes.	68	10th Jan. 1861	William Longmaid.
Apparatus and materials for filtering water and other liquids. (*Preserving the materials from decomposition.*) (*Communicated by Mr. G. Dardel.*)	132	17th Jan. 1861	Marc Antoine François Mennons.
Certain applications of chapapote and its products and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Improvements in umbrella and parasol furniture and in the means or apparatus employed in treating umbrella and parasol furniture, parts of which are also applicable in heating steel wire, ribs, rods or tubes for other purposes (*Hardening.*)	277	2nd Feb. 1861	George Holme Spencer. Richard George Cook.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
Preserving animal substances (*Hides.*) (*Communicated by Mr. Camille Guillaume Michel Magneval.*)	309	6th Feb. 1861	William Clark.
Preserving animal or vegetable matters (*Partly communicated by Mr. G. Leuchs.*)	576	7th March 1861	Abraham Gerard Brade.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESERVING WOOD, &c.—*continued.*			
Improvements in the means of preserving stones, bricks, slates, wood and other analogous materials from the action of atmospheric and other influences, and also in the manufacture of mortar, cement, artificial stone and such like substances - - - - -	626	14th March 1861	James Cane Coombe. James Wright.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.
Improvements in gas meters and regulators, and in compounding materials to be used as a coating for or in the composition of substances subject to the action of gas.	946	17th April 1861	Henry Alexander Frederick Duckham.
Improvements in the manufacture of wooden keys and treenails for railways and shipping, and in machinery employed therein. (*Seasoning the wood.*)	1197	11th May 1861	William Wilson.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware. (*As a covering for wood, iron, &c.*)	1269	18th May 1861	Archibald Campbell Ponton.
An improved composition or preparation for hardening and preserving stone and cement.	1428	6th June 1861	Jesse Rust.
An improved impermeable varnish for leather - (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
Preserving wood and iron - - - - -	1582	19th June 1861	John Cullen.
A new or improved process for the induration and preservation of stone and other analogous absorbent substances or materials, which process is also applicable to the production of artificial stone.	1738	9th July 1861	Frederick Settle Barff.
An improved proces for preserving and indurating timber, wood and other vegetable matters, and for rendering the same uninflammable.	1773	15th July 1861	Thomas Cobley.
Improvements in treating stone, bricks and other surfaces, and in the manufacture of filters -	2312	16th Sept. 1861	Frederic Maitland Ransome. Ernest Leslie Ransome.
Improvements in the manufacture of stones, bricks, tiles, slabs, statuary and such like materials, and in the method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - - - - - -	2335	19th Sept. 1861	James Cane Coombe. James Wright.
Improvements in the preservation of stone, brick and other such materials used in building, applicable also to the waterproofing of walls.	2694	26th Oct. 1861	William Smith.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
An improvement in and composition for treating iron and steel and articles manufactured thereof. (*Communicated by Alphonse Muller de la Mothe.*)	2845	12th Nov. 1861	Michael Henry.
An improved process for hardening stones and plaster of Paris and making them impervious to water - - - - - - -	2952	25th Nov. 1861	Jean Baptiste Hulard. Louis Guillaume Poupel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESERVING WOOD, &c.—*continued.*			
Mode of preparing and applying a certain material on the hulls of iron or wooden ships or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
An improved composition for coating metal and wood to preserve them from decay, applicable as a substitute for copper and other sheathing or other compositions now in use for coating ships' bottoms to protect them from theinjurious action of water.	3054	5th Dec. 1861	Charles Davis.
A new or improved method of treating teazles or thistles to be used in the teazling of cloths and stuffs and otherwise. (*Preventing decay.*) (*Communicated by Adolphe André Gohin.*)	3106	11th Dec. 1861	Richard Archibald Brooman.
PRESERVING AND PREPARING ARTICLES OF FOOD, DRESSING FRUIT, &c.			
Preserving organic substances - - - (*Meat, potatoes, &c.*)	46	8th Jan. 1861	William Rattray.
An improved mode of stoppering or closing canisters, bottles or other vessels. (*For containing preserves.*)	96	12th Jan. 1861	Marie Virginie Boquet.
Preserving animal substances - - - - (*Communicated by Mr. Camille Guillaume Michel Magneval.*)	309	6th Feb. 1861	William Clark.
Preserving animal or vegetable matters - - (*Partly communicated by Mr. G. Leuchs.*)	576	7th March 1861	Abraham Gerard Brade.
Improved means for preserving fermented liquors -	792	30th March 1861	Henry Medlock.
Method of and apparatus for drying and preparing grain, seeds or berries for food or other purposes - - - - - -	892	11th April 1861	Thomas Don. Thomas Smith. Loxley Horsfield.
Obtaining jellies, syrups and drinks from the tree arbutus unedo or arbousier.	962	19th April 1861	Philippe Mingaud.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
A new or improved instrument or apparatus for churning and for beating eggs and for other like purposes.	1426	6th June 1861	George Baker.
Apparatus for beating eggs and for mixing or agitating other fluids, compounds or matters.	1596	21st June 1861	George Turner.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours and gases for manufacturing, medical or domestic purposes and for preserving liquids and solids, alimentary or otherwise.	1692	3rd July 1861	Richard Jolley.
Improvements in the construction of machines for mincing meat and other substances.	1953	6th Aug. 1861	Joseph Mac Morran.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESERVING FOOD, &c.—*continued.*			
An improvement in preserving meat and other animal substances. (*Communicated by Jean Pierre Liès-Bodard.*)	2067	20th Aug. 1861	Richard Archibald Brooman.
Improvements in the process of preserving provisions and in the apparatus employed therein. (*Communicated by Alexandre Lecomte.*)	2386	24th Sept. 1861	George Davies.
Apparatus for beating eggs and for mixing or agitating other fluids, compounds or matters.	2400	26th Sept. 1861	Thomas Bentley.
An improved machine for mixing, mincing and pounding.	2493	5th Oct. 1861	James Turner.
An improvement in the preservation of articles of food	2665	24th Oct. 1861	John McCall. Bevan George Sloper.
An improved stopper for bottles, decanters, jars and similar articles. (*Communicated by William Augustus Shaw.*)	3031	3rd Dec. 1861	George Tomlinson Bousfield.
An improved apparatus for heating, cooling or drying, infusing, extracting or absorbing vapours or gases for manufacturing, medical or domestic purposes and for preserving liquids and solids, alimentary or otherwise.	3069	7th Dec. 1861	Richard Jolley.
Stoppering bottles and other vessels (*For preserves.*) (*Communicated by Mr. Victor Hippolyte Solon.*)	3103	11th Dec. 1861	William Clark.
Improvements in the treatment of milk for the manufacture of butter and in apparatus for the same.	3139	13th Dec. 1861	John Kelly.
PRESSES; COMPRESSING, PACKING, ARRANGING, PARCELLING.			
Adaption of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus (*Hydraulic ram rings or packing.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Presses and modes of pressing applicable to cotton, hemp, wool, coir, hides, hay, fibres, peat, linen, thread, piece goods, extracting oil and other useful purposes.	18	3rd Jan. 1861	Samuel Perkes.
An improved construction of forging press or hammer. (*Communicated by John Haswell.*)	25	4th Jan. 1861	Andrew Fairbairn.
Preserving the aroma and other properties of coffee and cocoa from the effects of the atmosphere. (*Pressing and parcelling.*)	577	7th March 1861	William Pidding.
Presses for pressing or finishing textile fabrics	665	16th March 1861	Adolphe Drevelle.
Machinery for pressing or baling cotton and other substances	738	23rd March 1861	Thomas Cardwell. David Campbell.
An hydraulic press which he terms his improved inverted hydraulic press, for pressing of hay, straw hops, hemp or flax, cotton or animal wool, animal or vegetable oils or any other materials.	741	25th March 1861	Paul Rapsey Hodge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESSES, &c.—*continued.*			
Making up or packing charges or small quantities of gunpowder, drugs or other articles.	752	25th March 1861	Thomas Bentley.
Machinery and apparatus used in drying, pulverizing and compressing clay and other materials.	764	27th March 1861	Weston Grimshaw.
Improvements in preparing fabrics to render them suitable for packing goods, and in closing or sealing packages.	815	2nd April 1861	James Brown.
Stamping-presses - - - - - (*Communicated by Adolphe Charles Guillemot.*)	817	2nd April 1861	William Clark.
Weaving textile fabrics - - - - (*For pack sheets.*)	887	11th April 1861	David Chalmers.
Sizing or preparing paper and textile fabrics in order to render them waterproof and to increase the strength thereof. (*Packing-paper.*) (*Communicated by Leon Bertin and Pierre Carteron.*)	895	11th April 1861	Richard Archibald Brooman.
Producing ornamented surfaces of metal and other materials.	974	19th April 1861	Henry Parkes.
A double system mixed press - - -	995	22nd April 1861	Hypolite Tarbouriech.
Improvements in the manufacture of wheels and in apparatus or machinery to be employed therein. (*Hydraulic press.*)	1106	2nd May 1861	Peter Wright.
An improved method of treating wood - - (*Pressing.*) (*Communicated by Edmond Armand Louis D'Argy.*)	1199	11th May 1861	Richard Archibald Brooman.
Obtaining and applying motive-power by aëro-hydraulic means. (*For presses.*)	1224	14th May 1861	Thomas Charles Boutet.
A copying press so called "Telegraph press" -	1313	23rd May 1861	Henry Marie Ferdinand Jules Vicomte De la Tour-du-Breuil. Alexandre Marie Auguste De la Tour-du-Breuil.
Apparatus for converting circular or rotary motion into alternate rectilinear motion. (*Applicable to printing presses.*) (*Communicated by Mr. François Normand.*)	1334	27th May 1861	George Henry Birkbeck.
Apparatus for manufacturing bricks and tiles -	1376	1st June 1861	Louis Bilon. Jean Etienne Jerémie Nappey.
Improvements in the manufacture of fuel from peat and in apparatus employed therein, parts of which are applicable to the moulding of bricks, tiles and other like materials.	1592	20th June 1861	Charles Hodgson.
Improvements in the mechanical compression of various substances and in apparatus employed therein.	1655	28th June 1861	David Blair White.
Improved apparatus for copying letters or writings and drafts. (*Communicated by Francis Tryon, George Heydecker and William Van Anden.*)	1826	19th July 1861	William Edward Newton.
Pressing-boards for pressing cloth and other fabrics (*Communicated by Edouard Fleury*).	2019	14th Aug. 1861	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESSES, &c.—*continued.*			
Certain improvements in presses for lithographic printing. (*Communicated by Mr. Henri Voirin.*)	2088	21st Aug. 1861	Marc Antoine François Mennons.
Improvements in cartridges for breech-loading fire-arms and in the machinery for manufacturing the same.	2203	4th Sept. 1861	François Eugène Schneider.
Means of producing raised chasing on copper, silver and Britannia metal by the application of pressure - - - - - -	2239	7th Sept. 1861	John Carpindale. Thomas Middleton.
Veneering-presses - - - - - -	2362	21st Sept. 1861	Charles Board.
Hydraulic presses - - - - - -	2459	2nd Oct. 1861	Walkden Thompson. Thomas Stather.
An improved machine for expressing oil - -	2469	3rd Oct. 1861	Robert John Ellershaw.
Pumps and stops used for working hydraulic presses.	2535	10th Oct. 1861	James Downs.
An improved portable apparatus for copying letters and other written papers or documents.	2608	19th Oct. 1861	Walter Greville Conyers Hudson.
Improvements in hydraulic presses and in the machinery and apparatus appertaining thereto and requisite in working the same, part of such improvements relating to the pumping machinery attached to hydraulic presses, and this part being applicable to pumping machinery employed for other purposes.	2638	22nd Oct. 1861	Frederick Oldfield Ward.
Hydraulic presses - - - - - -	2713	29th Oct. 1861	Michael Scott.
Hydraulic cotton presses worked by steam - -	2886	16th Nov. 1861	David Stewart.
Pumps - - - - - - - - (*For working presses.*)	3048	5th Dec. 1861	John Knowelden.
Improvements in the expression of oil from cake and seeds and in apparatus employed therein.	3143	14th Dec. 1861	Jacques Edouard Duyck.
An improvement in the construction of hydraulic presses.	3191	20th Dec. 1861	Joseph Westwood.
Improvements in machinery for cutting hay, straw and other vegetable substances. (*Lever for increasing pressure.*)	3242	27th Dec. 1861	Thomas Bright.
PRINTING AND TRANSFERRING; TYPE AND OTHER SURFACES FOR PRINTING; COMPOSING AND DISTRIBUTING TYPE.			
An improved instrument for writing and printing music.	76	11th Jan. 1861	Paul Laffitte, junior.
Machinery or apparatus for lithographic printing -	138	17th Jan. 1861	John Robert Joy.
Improvements in mordanting and in the manufacture of products to be used as mordants and otherwise - - - - - -	139	18th Jan. 1861	Joseph Townsend. James Walker.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials.	189	24th Jan. 1861	Henry Henderson.
Apparatuses for printing addresses for newspapers and other similar purposes - - - -	319	8th Feb. 1861	Robert Harrild. Horton Harrild.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRINTING, &c.—*continued.*			
An improved apparatus applicable for marking linen and for other printing and stamping purposes.	328	9th Feb. 1861	Griffith Jarrett.
Improvements in stereotype plates and in machinery or apparatus for manufacturing the same.	349	11th Feb. 1861	Giovanni Guiseppe Aggio.
A new system of ornamenting skin gloves - -	381	15th Feb. 1861	Jean-Baptiste Honoré Félix Camille Nicolet.
Manufacture of music plates - - - - -	434	21st Feb. 1861	Joshua James Watts. Samuel Harton.
An improvement in doctors, calico webs or scrapers used in the process of printing calicoes, muslins and other textile fabrics - - - - (*Using coated metal.*)	440	22nd Feb. 1861	Austin Crookes. Henry Roberts.
An improvement or improvements in ornamenting surfaces.	575	7th March 1861	William Edward Wiley.
Dyeing and printing textile materials and fabrics -	612	12th March 1861	Robert Hodgson Gratrix.
Means and method of fixing colors in connection with the printing of woven fabrics and yarns -	627	14th March 1861	Robert Thomson Pattison. Adam Monteith Pattison.
Fixing colouring matter more especially those derived from aniline or other similar bases on fibrous materials and textile fabrics - -	682	18th March 1861	John Stevenson Miller. Thomas Paterson Miller.
Improvements in cutting and ornamenting the edges of books, paper, vellum and other substances, and in apparatus connected therewith.	687	19th March 1861	Benjamin West.
Producing combinations of certain colors on cotton fabrics.	693	20th March 1861	Thomas Brooks.
Dyeing and printing textile materials and fabrics -	701	20th March 1861	Nathaniel Lloyd. John Gallemore Dale.
Mode of applying coloring matter to certain textile fabrics and yarns in the process of dyeing and printing.	799	1st April 1861	John Lowe.
Fixing coloring matters on textile fabrics and fibrous materials - - - - - - -	835	4th April 1861	John Stevenson Miller. Thomas Paterson Miller.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus.	859	8th April 1861	John Clark.
Improvements relating to ornamental cotton fabrics having Turkey-red grounds.	911	13th April 1861	George Graham.
Improvements in or connected with cylinder printing machines.	969	19th April 1861	William Grove.
Ornamenting porcelain and other earthen wares and glass. (*Communicated by Samuel Daniel.*)	982	20th April 1861	William Clark.
Manufacture of rollers for printing, embossing and otherwise producing designs, patterns, figures and shapes - - - -	1042	25th April 1861	Hesketh Hughes. Charles Grey Hill.
Apparatus for embossing and taking casts or matrices for stereotype and other purposes.	1056	26th April 1861	James Dellagana.
Certain new chemical combinations and for the application thereof to fixing aniline and pigment colours in printing and dyeing, to tanning, waterproofing and other industrial purposes. (*Communicated by Doctor Francis Leopold Sonnenschein.*)	1079	30th April 1861	Jacques Meyer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRINTING, &c.—*continued.*			
Coloring-matters derived from napthylamina, binitronapthalina and trintronapthalina, and application of such coloring matters to the dyeing and printing of fabrics.	1087	1st May 1861	François Zacharie Roussin.
Photographic printing upon the interior of any glass or other transparent vessel - -	1089	1st May 1861	Thomas Hooman. John Maliszewski.
Means and method of fixing colors in connection with the printing and dyeing of woven fabrics and yarns.	1092	1st May 1861	Robert Thomson Pattison.
Railway and other passengers' tickets - -	1184	10th May 1861	William Parsons. John Dowling. John Dowling, junior.
Apparatus or machinery for printing textile fabrics or materials.	1196	11th May 1861	Henry Jackson Davies.
Machinery or apparatus for printing paper hangings	1239	15th May 1861	William Mitchell.
Printing-machinery - - - - - (*Communicated by Stephen Davis Tucker.*)	1304	22nd May 1861	William Edward Newton.
Apparatus for converting circular or rotary motion into alternate rectilinear motion. (*Applicable to printing-presses.*) (*Communicated by Mr. François Normand.*)	1334	27th May 1861	George Henry Birkbeck.
Stereotyping - - - - - -	1510	12th June 1861	John Napier.
Machinery or apparatus for plaiting or folding woven fabrics - - - - - -	1522	13th June 1861	Samuel Cook. William Henry Hacking.
Certain improvements in the manufacture of corks and bungs. (*Printing.*)	1525	13th June 1861	Thomas Marshall Downing.
Dyeing and printing velvets, velveteens and other fabrics with floated threads - - -	1547	17th June 1861	Thomas Mellodew. Charles William Kesselmeyer. John Mayo Worrall.
Certain improvements in printing machines and in apparatus for taking off and delivering the sheets when printed, and which said apparatus is applicable to printing-machines now in use.	1561	18th June 1861	Stephen Sharp.
Improvements in the manufacture of floor cloth and in the means of ornamenting the same.	1600	21st June 1861	William Frederick Henson.
Reproduction of forms of objects applicable to the production of printing-surfaces. (*Communicated by Louis Kessler and Joseph Alfred Xavier Michiels.*)	1603	21st June 1861	John Henry Johnson.
Certain improvements in the manufacture of ornamental or fancy ribbons and in the machinery or apparatus connected therewith.	1609	22nd June 1861	Robert Ormerod.
Production of chromo-lithographic impressions upon glass, porcelain and other similar material.	1619	25th June 1861	Jules Lafon.
An improvement or improvements in the manufacture of wood and other types or substitutes therefor, and also in the matrix or apparatus for producing the same.	1652	28th June 1861	John Whitfield Harland.
Improvements in lapping used in machines for printing textile fabrics, part of which improvements is applicable to driving bands. (*Communicated by Seth Baker.*)	1668	29th June 1861	Alfred Vincent Newton.
Washing, wringing and mangling machines - -	1699	4th July 1861	Richard Mills.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Printing, &c.—*continued.*			
Improvements in the method of soldering together two or more printing type letters to facilitate the work of the compositor, and in the arrangement of type cases for the same.	1765	13th July 1861	Louis George.
Improvements in producing and treating printing-surfaces, in producing and preparing transferring surfaces, in transferring, in producing impressions on an altered scale, in preparing or treating surfaces of lithographic stones, and in obtaining devices or designs, also in agents and apparatus used in some of such improvements, parts of the invention being also applicable to photography and to ornamenting pottery, porcelain and glass.	1936	3rd Aug. 1861	Joseph Lewis.
Improvements in stamping, endorsing and embossing machines - - - - -	1951	6th Aug. 1861	John Turner. Robert Buchanan Dunnett.
Producing on porcelain and other ceramic products, on glass, Venetian enamels and on metallic surfaces, designs in colours and in gold, silver and other metals. (*Communicated by Franz Kosch.*)	2009	13th Aug. 1861	Joseph Jacob.
Certain improvements in presses for lithographic printing. (*Communicated by Mr. Henri Voirin.*)	2088	21st Aug. 1861	Marc Antoine François Mennons.
Printing-machines - - - - - -	2111	23rd Aug. 1861	Henry Ingle. James Ingle.
Improvements in printing and colouring paper, chintz and other fabrics, and machinery or apparatus for that purpose.	2190	2nd Sept. 1861	Alphonse Nicolas Saleres.
An improved method of producing mixed-colored woollen and other threads. (*Communicated by Stanislas Vigoureux.*)	2253	9th Sept. 1861	Richard Archibald Brooman.
An improved system of combination types and an improved case for containing the same.	2322	17th Sept. 1861	Albon Honestus Bailey.
Apparatus or means employed in the printing of yarns for carpets and other fabrics - -	2390	25th Sept. 1861	Thomas Bright. Robert Mills.
Improvements in finishing and perfecting curved or circular stereotype plates and in apparatus for the same.	2484	4th Oct. 1861	James Dellagana.
Improvements in the construction of printing-machines and in driving or actuating the same.	2511	8th Oct. 1861	Samuel Bremner.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - - (*Surface letters.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
An improved machine for setting, spacing, justifying and distributing printers' type.	2531	10th Oct. 1861	Charles Wilson Felt.
An improved chase for printing-presses - -	2565	15th Oct. 1861	Corneille Wynants.
Manufacture of printed shirt fronts - -	2672	25th Oct. 1861	Simon Oppenheim.
Means of obtaining and producing printing-surfaces (*Communicated by Alphonse Edouard Aufrey and François Germain Léopold Tabar.*)	2699	28th Oct. 1861	William Clark.
Ornamenting the covers of photographic albums, books, writing-cases and other like articles. (*Printing veneers.*)	2781	5th Nov. 1861	John Peter Bourquin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRINTING, &c.—*continued.*			
Improvements in the manufacture of printed yarns and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads.	2842	12th Nov. 1861	William Tongue.
Weaving, printing and otherwise treating certain ornamental fabrics.	2983	27th Nov. 1861	William Leck.
Improvements in printing and ornamenting textile fabrics, paper-hangings and other materials, and in surfaces and apparatus for such purposes. (*Communicated by Alexandre Adrien Despréaux.*)	3055	5th Dec. 1861	Michael Henry.
Dyeing and printing certain descriptions of woven fabrics - - - - - - -	3075	7th Dec. 1861	Thomas Mellodew. Charles William Kesselmeyer. John Mayo Worrall.
Production of relief designs on metallic surfaces for general printing, gaufering and embossing purposes. (*Communicated by François Debons and Théobald Denny.*)	3081	9th Dec. 1861	Marc Antoine François Mennons.
Decorating or printing upon china, porcelain, earthen and other like wares. (*Communicated by Joseph Robert Prévost.*)	3107	11th Dec. 1861	Richard Archibald Brooman.
A new or improved method of ornamenting certain fabrics.	3131	13th Dec. 1861	Thomas Bow Gibson.
Ornamentation of textile fabrics - - - - (*Printing steel dust.*)	3174	18th Dec. 1861	Joseph Thiébaut.
An improved method of utilizing bags, wrappers or other similar articles made of paper or other materials and in any form.	3192	20th Dec. 1861	Gustave Niay.
An improvement in cylinders used in printing calicoes and other textile fabrics. (*Communicated by Henry Kündig George Bertschy and Joseph Porges de Portheim.*)	3203	20th Dec. 1861	Dudley Charles Le Souëf.
An improvement or improvements in the manufacture of wood and other types or substitutes therefor or furniture used by letter press printers.	3248	28th Dec. 1861	John Whitfield Harland.

For Engraving Cylinders, *see* "ENGRAVING."
For Telegraphic Printing, *see* "TELEGRAPHS."
For Printing-colours, *see* "DYES."

PROPELLING, DRIVING, WORKING; TRANSMITTING POWER AND MOTION; CONVERTING MOVEMENTS.

1.—Propelling Ships; Locomotion on Water; Propellers, Paddle-wheels and Screws.

Improvements in screw propellers and in machinery or apparatus for actuating the same.	114	15th Jan. 1861	Robert Wilson.
An improvement in propellers for propelling ships, boats and other vessels in water - -	171	22nd Jan. 1861	Richard Philp. John Philp.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in applying and fitting screw propellers, and in forming and fitting the stern parts of ships for receiving screws.	269	1st Feb. 1861	Alexander Crichton.
Improvements in velocipides, applicable also for propelling carriages, barges and boats.	382	15th Feb. 1861	Ebenezer Poulson.
Mode of applying engine power to wheels and other like instruments employed in producing locomotion whether by land or water.	485	25th Feb. 1861	John Barling.
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore.	492	26th Feb. 1861	William Henry James.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
Marine propulsion - - - - - - (*Communicated by Edward Bruce Boughton Barker.*)	673	16th March 1861	George Henry Birkbeck.
Apparatus for propelling and steering vessels - -	698	20th March 1861	Alexander Symons.
Improved apparatus for propelling vessels - -	709	21st March 1861	George Baxter.
Apparatus for propelling ships and other vessels -	718	22nd March 1861	Thomas Seaville Truss.
Screw propellers - - - - - -	881	10th April 1861	William Bishop Peck.
Steam-engines and apparatus connected therewith - (*Gearing for propelling ships.*)	1064	27th April 1861	Thomas William Miller.
Improvements in constructing and in machinery or apparatus for propelling ships and vessels.	1175	9th May 1861	Joseph Burch.
An improved method of propelling and steering steam vessels, and for a casing about the apparatus constituting therewith a steam condenser -	1201	11th May 1861	George Fowler Jones. James Jones.
Construction, ventilation and propulsion of life boats. (*Communicated by John Theodore Scholl.*)	1205	11th May 1861	William Clark.
Improvements in propelling vessels and in apparatus for the same - - - - -	1268	20th May 1861	Oswald Papengouth. Laurenz Ignatz Lehmann.
Apparatus for propelling vessels - -	1368	31st May 1861	The Right Honorable Lord Charles Beauclerk.
Propelling vessels - - - - -	1389	3rd June 1861	John Towl.
Propelling vessels - - - - -	1557	18th June 1861	Robert Walker.
Construction, steering and propelling of ships and other floating bodies, and appliances adapted thereto.	1614	24th June 1861	Robert Moore.
Apparatus for propelling vessels - - - (*Communicated by Mr. Paolo de Scalzi.*)	1621	25th June 1861	William Clark.
Machinery or apparatus for propelling vessels -	1715	6th July 1861	John Dean.
An improved method of propelling ships and other vessels by means of superheated steam. (*Communicated by Eugene Coulon.*)	1823	19th July 1861	Richard Archibald Brooman.
Constructing and propelling ships and vessels -	1882	27th July 1861	William Horatio Harfield.
Towing vessels or boats on rivers. - - (*Communicated by Jean François Cail.*)	2028	15th Aug 1861	Adolphe Lebaudy.
Transmitting motive-power especially applicable to piston propellers.	2041	15th Aug. 1861	Richard Dover Chatterton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in screw or spiral propellers also applicable to raising and forcing water.	2095	22nd Aug. 1861	Arthur Irwin Mahon.
Improvements in the propulsion and steerage of ships or vessels and in the construction and arrangement of the machinery connected therewith. (*Communicated by Pierre Louis Timothée Thier.*)	2119	26th Aug. 1861	Marc Antoine François Mennons.
Improvements in propellers, and in propelling vessels through water.	2249	9th Sept. 1861	Alfred Fryer.
Propelling ships, boats and other vessels - - (*Communicated by Colonel Philip Kearney Macgregor Skinner.*)	2309	16th Sept. 1861	Arthur Macgregor Skinner.
Improvements in the construction of and appliances to steam ships or other vessels - - -	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Improvements in the propeller of a ship - - (*Communicated by Jean Baptiste Vincent and Martin Louis Goupy.*)	2378	24th Sept. 1861	James David Parkes.
Batteries for the purposes of war - - (*And propelling.*)	2514	9th Oct. 1861	Robert William Sievier.
Certain improvements in propelling and sustaining balloons and aërial machines in the air.	2529	10th Oct. 1861	David Stephens Brown.
Method of and apparatus for propelling ships and vessels. (*Communicated by Charles Alexandre Séraphin Victor Marquis de la Baume.*)	2570	15th Oct. 1861	Richard Archibald Brooman.
Marine screw propellers - - -	2584	17th Oct. 1861	William Welch.
A new method and apparatus for the propulsion of vessels through the water.	2626	21st Oct. 1861	Joseph Scott Phillips.
Anti-friction mechanism for receiving the end thrust of screw propeller and other rotating shafts - - - - -	2705	29th Oct. 1861	Edmund Suckow. Edward Habel.
Apparatus for propelling and steering vessels -	2966	26th Nov. 1861	Charles George Braxton.
An improved construction of paddle wheels for vessels propelled by steam or other motive-power - - - - -	2998	28th Nov. 1861	William Cooke. Francis Squire.
Paddle wheels - - - - -	3132	13th Dec. 1861	Sylvanus Padley.
Improvements in machinery or apparatus for giving motion to ships and machinery and for raising water - - - - -	3187	20th Dec. 1861	James Standfield. John Standfield.
Improvements in paddle wheels for the propulsion of ships and other navigable vessels.	3194	20th Dec. 1861	William Tipple.
II.—Propelling Carriages; Locomotion on Land.			
Improvements in velocipedes applicable also for propelling carriages, barges and boats.	382	15th Feb. 1861	Ebenezer Poulson.
Propelling and steering carriages and also ploughs and other agricultural implements.	636	14th March 1861	William Hodson.
Mode of applying engine power to wheels and other like instruments employed in producing locomotion whether by land or water.	485	25th Feb. 1861	John Barling.
Apparatus for propelling carriages on common roads.	1136	6th May 1861	Edward Louis Paraire.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Apparatus for propelling and steering carriages, which apparatus is also applicable for giving motion to machinery generally.	1222	14th May 1861	August Friedrich Hildebrand.
Means and apparatus for propelling by traction carriages and other vehicles on railways, tramways and other roads.	1917	1st Aug. 1861	George Edwards.
Improvements in wheels for facilitating the progress of carriages on common roads, and in the means of propelling the same.	2212	5th Sept. 1861	John Taylor Pensam.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines.	2215	5th Sept. 1861	Thomas Scott.
Apparatus for preventing or lessening the slip of the driving wheels of locomotive engines. (*Communicated by Samuel Thompson Armstrong and Jared Wilson Post.*)	2517	9th Oct. 1861	Edward Haslewood.
Apparatus for facilitating the passage of trains up steep gradients on railways. (*Communicated by Thomas Agudio.*)	2632	21st Oct. 1861	John Henry Johnson.
III.—Driving Machinery, Ploughs and Pumps; Feed Motions, Guides, Adjustments and Traversers; Transmitting Power and Motion; Cranks and Gearing.			
Machinery for heckling flax and other fibrous materials.	19	4th Jan. 1861	George Lowry.
Spinning or twisting fibrous materials - -	29	5th Jan. 1861	John Watson. Charles Frederick Halle.
Sewing-machines - - - - - (*Communicated by Jacques Marie Clement de Bras and Gabriel Léonord Bongard.*)	30	5th Jan. 1861	Henry Gilbee.
Certain improvements in machinery for preparing, spinning and doubling cotton and other fibrous substances - - - - - (*Giving variable speed to spindles.*)	51	9th Jan. 1861	Edward Lord. Robert Whitaker.
Looms for weaving - - - - - (*Giving motion to the lay.*)	88	12th Jan. 1861	William Bullough.
Sewing-machines - - - - - (*Communicated by Theodore Stuart Washburn.*)	89	12th Jan. 1861	George Whight.
Certain improvements in firearms and ordnance - (*Imparting rotary motion to the barrels.*)	109	15th Jan. 1861	John Sidebottom.
Machinery for finishing patent tracing cloth and other woven fabrics. (*Communicating motion to the rollers.*)	122	15th Jan. 1861	Henry Sagar.
Machinery for making butt hinges - - - (*Communicated by William Henry Van Gieson.*)	130	17th Jan. 1861	William Spence.
Machinery or apparatus for lithographic printing - (*Adjusting position of stone.*)	138	17th Jan. 1861	John Robert Joy.
An improved clutch apparatus for transmitting motion to various kinds of machinery. (*Communicated by Messrs. Colas, Brothers.*)	144	18th Jan. 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Machines for manufacturing corks, bungs, spiles and such like articles. (*Adjustable cutting machine.*) (*Communicated by Paul Alexis Adolphe Dalverny.*)	155	19th Jan. 1861	Michael Henry.
Circular looms for weaving hats and other articles - (*Guiding the warp holders.*) (*Communicated by Mr. Louis Bonard.*)	182	23rd Jan. 1861	William Clark.
Manufacture of hats - - - - -	185	23rd Jan. 1861	William Wilson.
Machinery for shaping metal - - - - -	219	28th Jan. 1861	Charles De Bergue.
Improved apparatus for obtaining motive-power or communicating motion to machinery.	237	29th Jan. 1861	Robert Culverwell.
Mountain and other barometers - - - - (*Adjusting the cistern.*)	238	29th Jan. 1861	Enrico Angelo Ludovico Negretti. Joseph Warren Zambra.
Improvements in the manufacture of malleable iron and steel, and in the machinery or apparatus employed in such manufacture. (*Giving rotary motion to converting-vessel.*)	275	1st Feb. 1861	Henry Bessemer.
Improvements in sewing-machines and in apparatus connected therewith - - - -	285	2nd Feb. 1861	William Newton Wilson. William Tertius Rowlett.
Looms - - - - - - - - (*Giving motion to the lay.*)	301	5th Feb. 1861	John Leeming.
Machinery or apparatus for folding and measuring woven or textile fabrics, paper and other materials, and for introducing cards into the folds ready for the press.	304	6th Feb. 1861	Adolphe Drevelle.
Improvements in stereotype plates and in machinery or apparatus for manufacturing the same.	349	11th Feb. 1861	Giovanni Guiseppe Aggio.
Sewing and embroidering machines - - (*Communicated by Louis Alphonse Maureau.*)	367	13th Feb. 1861	William Clark.
Looms for weaving - - - - - - (*Traversing the cam.*)	387	15th Feb. 1861	Allen Senior.
Machinery or apparatus for the manufacture of bituminized paper pipes and other similar articles.	392	16th Feb. 1861	James Horn.
Sewing-machines - - - - - (*Communicated by The Grover and Baker Sewing Machine Company.*)	399	18th Feb. 1861	John Henry Johnson.
Improved means of applying the water of rivers for driving mills, without weirs or other obstruction to the passage of salmon and other fish.	460	23rd Feb. 1861	Hugh Mackenzie.
Machinery commonly called log frames for sawing timber.	471	23rd Feb. 1861	John Robinson.
Jacquard engines - - - - - - (*Traversing the face plate.*)	478	25th Feb. 1861	James Leeming.
Construction of windlasses and implements applicable to steam cultivation - - - (*Raising and lowering windlass drums.*)	484	25th Feb. 1861	James Howard. Edward Tenney Bousfield.
Certain improvements in power looms for weaving (*Varying height of warp.*)	501	27th Feb. 1861	William Hudson. Christopher Catlow.
Machinery or apparatus for preparing and spinning of cotton, wool and other fibrous substances -	510	28th Feb. 1861	Robert Hoyle. Henry Spencer. Thomas Holland.
Means or apparatus employed in sawing wood -	516	28th Feb. 1861	Joseph Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improved machinery for cutting or sawing wood, stone or any material capable of being cut or sawn by a rapid reciprocating motion of the cutting or sawing blades.	519	28th Feb. 1861	Robert Thompson.
An improved agricultural implement for cultivating land and for sowing seed. (*Partly communicated by Guiden Huntington.*)	528	1st March 1861	Levi Lemon Sovereign.
Apparatus for weaving - - - -	541	2nd March 1861	Sebastiano Botturi, commonly called Sebastien Botturi.
Improved machinery for folding paper - - (*Guide plate.*) (*Communicated by Daniel Francis Buckley and Bradbury Poor Cilley.*)	542	2nd March 1861	William Edward Newton.
Planes - - - - - - (*Communicated by Joseph Vendrand.*)	546	4th March 1861	George Davies.
Machinery for making bullets - - - (*Communicated by Richard Gornall and William John Hooper.*)	552	4th March 1861	William Edward Newton.
Machinery for making frills - - -	603	11th March 1861	William Tillie.
Propelling and steering carriages and also ploughs and other agricultural implements.	636	14th March 1861	William Hodson.
Machines for breaking up and cultivating land -	641	15th March 1861	Bernhard Samuelson.
Ploughs - - - - - - (*Communicated by Mr. Hautavoine.*)	649	15th March 1861	George Dixon.
Machinery for drawing and spinning wool and other fibrous substances. (*Communicated by John Henry Bloodgood.*)	680	18th March 1861	William Edward Newton.
Drawing-instruments - - - -	706	20th March 1861	Simon Hart Scott.
Embroidering-machines - - - -	713	21st March 1861	Alfred Heaven. Robert Smith.
Apparatus for cutting and shaping metals - - (*Communicated by Mr. Aaron Bonehill.*)	715	21st March 1861	William Clark.
Sewing-machines - - - - - (*Giving motion to the needle.*) (*Communicated by James Frost.*)	716	22nd March 1861	William McIntyre Cranston.
Improvements in power looms for weaving check patterns and in connecting rods for power looms.	729	22nd March 1861	Abraham Haley.
Improvements in electric telegraphs and in apparatus connected therewith. (*Regulating speed of trains of wheelwork.*)	734	23rd March 1861	William Thomas Henley.
Machinery for pressing or baling cotton and other substances - - - - -	738	23rd March 1861	Thomas Cardwell. David Campbell.
An improvement or improvements in thrashing-machines - - - - - -	757	26th March 1861	John Smith. John Birch Higgs.
Improvements in and connected with steam-engines - - - - - - (*Driving pumps; applying guides to piston rods.*)	759	26th March 1861	Thomas Davison. Robert Paterson.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - - (*Cutter guide rail.*)	765	27th March 1861	Edward Briggs. Samuel Fearnley.
Motive-power for sewing-machines - -	802	1st April 1861	James Edward Boyd.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Machinery or apparatus for combing wool and other fibres.	808	1st April 1861	John Greenwood.
Improvements in the means for actuating machine hammers, which said improvements are also applicable to pile-driving and other such like machines and purposes - - - -	809	2nd April 1861	John Grieve Winton. Thomas William Cowan.
Reaping and mowing machines - - -	824	3rd April 1861	Adam Carlisle Bamlett.
Mode of and apparatus for knitting - - - (*Cylinder for controlling the courses.*)	831	4th April 1861	William Henry McNary.
Machinery or apparatus for slubbing, roving, spinning and doubling cotton and other fibrous materials.	846	5th April 1861	James Dunn.
Machinery for preparing and spinning cotton and other fibrous substances. (*Traversing ; changing motion.*)	849	6th April 1861	William Slater.
Certain improvements in machinery for preparing cotton and other fibrous substances - -	850	6th April 1861	Richard Wallwork. Thomas Sumner.
Improvements in looms for weaving figured fabrics and in apparatus connected therewith. (*Communicated by Samuel Thomes Thomas.*)	854	6th April 1861	John Henry Johnson.
Improvements in electro-magnetic telegraphs and in apparatus connected therewith.	858	8th April 1861	Henry Wilde.
Improvements in apparatus for feeding or supplying paper or other like material to ruling, embossing, printing and similar machines, and in certain parts of embossing apparatus.	859	8th April 1861	John Clark.
Improvements in coining machinery and in apparatus employed for regulating the expansion of elastic fluids.	862	8th April 1861	Henry Wollaston Blake.
Machinery for dressing and cutting stone - - (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	872	9th April 1861	James Higgins. Thomas Schofield Whitworth.
Breech-loading fire-arms and ordnance - -	874	9th April 1861	William Wood.
Machinery for the manufacture of sheet metal chains.	891	11th April 1861	James Lancelott.
Machinery for spinning and doubling cotton and other fibrous materials.	919	15th April 1861	Asa Bradbury.
Improvements in obtaining light and in the apparatus employed therein.	927	15th April 1861	Frederick Gye.
Clutches or connections for machinery - -	939	17th April 1861	John Reed Hill.
Improvement in or connected with cylinder printing machines.	969	19th April 1861	William Grove.
Looms for weaving - - - - -	973	19th April 1861	William Hudson. Christopher Catlow.
Machines for fluting rollers and for shaping metals	976	20th April 1861	William Ryder. Thomas Ryder.
Steam and other engines - - - -	987	20th April 1861	George Augustus Huddart. Joseph Durham Erskine Huddart.
Construction of liquid meters - - - (*Communicated by Gottfried Kober.*)	989	20th April 1861	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in fire-arms and in apparatus to be used therewith.	1000	22nd April 1861	Alexander Henry.
Certain improvements in machinery for spinning cotton and other fibrous materials - - (*Winding-on motion in mules.*)	1001	23rd April 1861	Richard Shaw. William Snodgrass.
Improved machinery for cutting or pulping roots to be used as food for cattle.	1010	23rd April 1861	Edward Hammond Bentall.
Machinery for spinning fibrous materials - -	1017	24th April 1861	Frederick Joseph Bramwell.
Improved apparatus for transmitting motion to machinery to be driven by horse power.	1027	24th April 1861	Edward Hammond Bentall.
Construction and working of saw frames - -	1028	24th April 1861	Thomas Greenwood.
Machinery or apparatus for preparing and spinning cotton, wool, flax, silk and other fibrous materials.	1037	25th April 1861	Thomas Garner.
Preventing the fracture of metals from crystallization. (*Crank pins, &c.*)	1055	26th April 1861	John Marshall.
Steam-engines and apparatus connected therewith -	1064	27th April 1861	Thomas William Miller.
An improvement or improvements in the process of carding wool, cotton, silk or other fibrous materials, and in machinery or apparatus applicable for that purpose.	1078	30th April 1861	George Hulme.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.
Machinery or apparatus for the manufacture of sugar. (*Gearing.*)	1095	2nd May 1861	John Charles Wilson.
Certain improvements in machinery or apparatus for doubling yarn or thread. (*Raising the upper roller by self-acting means.*)	1111	3rd May 1861	Thomas Bradshaw.
Improved apparatus for applying motive-power -	1112	3rd May 1861	George Hayes.
Manufacture of trimmings - - - - (*Communicated by James Wilcox and Hector Tyndale.*)	1116	3rd May 1861	Alexander Wight.
Improvements in engines and implements for ploughing and cultivating land, parts of which improvements are also applicable to other purposes. (*Communicating motion to ropes; raising, lowering and reversing tines.*)	1125	4th May 1861	William Collett Homersham.
Improvements in machinery or apparatus for warping cotton, worsted and other similar materials, and in expanding combs used in connection therewith, and also in springs used in the manufacture of the said combs, which springs are applicable to other purposes - - (*Giving motion to the slides which regulate the falling rods.*)	1134	6th May 1861	Thomas Blackburn. Mark Knowles.
Certain improvements in machinery for combing wool, cotton and other fibres.	1159	8th May 1861	Thomas Elce, junior.
An improved feed motion for sewing-machines -	1179	9th May 1861	Isaac Merritt Singer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Furnace bars - - - - - - (*Giving motion to.*)	1185	10th May 1861	Thomas Long Jackson.
Endless or portable railways for facilitating the traction or draught of vehicles.	1187	10th May 1861	Andrew Dunlop.
Cultivators, ploughs and apparatus used therewith when cultivating and tilling land.	1219	13th May 1861	William Smith.
Apparatus for propelling and steering carriages, which apparatus is also applicable for giving motion to machinery generally.	1222	14th May 1861	August Friedrich Hildebrand.
Improvements in looms for weaving and in apparatus connected therewith - - - - (*Giving motion to temple rollers.*)	1225	14th May 1861	James Bullough. John Bullough.
Wire card covering for carding tow, flax or other fibrous substances.	1226	14th May 1861	George Savile Goodall.
Apparatus to be employed in steam cultivation -	1232	14th May 1861	James Howard. Edward Tenney Bousfield.
Machinery or apparatus for printing paper-hangings.	1239	15th May 1861	William Mitchell.
An improved reaping-machine to be called "comb beater." (*Communicated by Napoleon Gorel.*)	1249	16th May 1861	Henry Gilbee.
Knitting-machinery - - - - - (*Communicated by James Green Wilson.*)	1250	16th May 1861	Alfred Vincent Newton.
Reaping and mowing machines - - -	1254	16th May 1861	John Leakey Bowhay.
Construction of power looms - - - - (*Communicated by Mr. François Loret Vermeersch.*)	1255	16th May 1861	Bernard Hudson.
Machinery and apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
Tractomotives or engines for running upon earth or on common roads. (*Communicated by Mr. Simon Stevens.*)	1279	18th May 1861	Benjamin Franklin Stevens.
Machinery or apparatus for tilling or cultivating land. (*Transmitting motion.*)	1296	21st May 1861	William Tasker, junior.
Improvements in machinery for grinding the cards of carding-engines and in machinery for making the same. (*Making the traverser.*)	1306	23rd May 1861	Charles Nuttall.
Improvements in the manufacture of portable or traction steam-engines, and in apparatus for cutting joints, heads of connecting rods and other articles - - - - - (*Adjusting hinder axle; raising and lowering boiler.*)	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improvements in machines for making and collecting hay and for collecting similar substances, parts of which improvements are applicable to cutting thistles and other weeds.	1333	27th May 1861	William Newzam Nicholson.
Apparatus for converting circular or rotary motion into alternate rectilinear motion. (*Communicated by Mr. François Normand.*)	1334	27th May 1861	George Henry Birkbeck.
Machinery for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	1352	30th May 1861	James Ronald.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Looms for weaving - - - - - (*Actuating shuttle boxes and healds.*)	1358	31st May 1861	William Hunter.
Improved machinery or apparatus for cutting stone of every description. (*Giving the cutting tool a circular movement.*) (*Communicated by Pierre Martin.*)	1360	31st May 1861	William Edward Gedge.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*Adjusting the parts.*)	1371	1st June 1861	Thomas Coradine.
An improved kneading-machine - - -	1375	1st June 1861	Paul Gondolo.
Punching-machines - - - - -	1377	1st June 1861	Howarth Stansfield.
Reaping and mowing machines - - - (*Raising cutters, &c.*)	1384	3rd June 1861	William Harwood.
Machinery for tunnelling and driving galleries through rock and other strata. (*Varying speed of screw shafts.*)	1386	3rd June 1861	Herbert Newton Penrice.
Improvements in implements for pulverizing, ploughing and grubbing land, and in applying motive-power for working agricultural implements, parts of which improvements are applicable to condensing-engines - - -	1402	4th June 1861	James Lamb Hancock. Frederick Lamb Hancock.
Machinery or apparatus for cutting paper or other materials.	1418	6th June 1861	Daniel Nickols.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Hay-making machines - - - - (*Raising and lowering tine barrels.*)	1461	8th June 1861	James Howard. Edward Tenney Bousfield.
Machinery applicable to steam cultivation - -	1483	10th June 1861	Robert Romaine.
An improved reaping and mowing machine - - (*Communicated by Victor Emile Douat Duchataux.*)	1502	12th June 1861	William Edward Gedge.
Certain improvements in machinery for preparing cotton and other fibrous materials.	1518	13th June 1861	John Knowles.
Machinery or apparatus for cutting hay and chaff or other similar purposes.	1521	13th June 1861	Francis Gregory.
Machinery or apparatus for plaiting or folding woven fabrics - - - - -	1522	13th June 1861	Samuel Cook. William Henry Hacking.
Certain new and useful improvements in machinery for sewing cloth or other material.	1530	14th June 1861	Albert Francis Johnson.
Hay-making machines - - - -	1532	14th June 1861	Thomas William Wedlake.
Improvements in implements for tilling and cultivating the soil, and in boilers for supplying steam to engines for driving the same, which latter improvements are applicable to boilers generally and especially to boilers of traction engines.	1533	14th June 1861	George Leach.
Machinery for giving motion to ploughs, cultivators and other agricultural implements.	1540	15th June 1861	William Smith.
Certain improvements in power looms for weaving	1552	17th June 1861	William Todd. Jacob Todd.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improved apparatus for transmitting motion - (*Communicated by William Sellers and Coleman Sellers.*)	1565	18th June 1861	William Edward Newton.
Steam-engines and machinery for giving motion to agricultural implements and other machines.	1569	18th June 1861	Joseph Edward Kirby.
Improvements in the pointing of steel or other wire for teeth of cards, and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.
Improvements in machines for fulling woollen and other fabrics and in the method of driving the same.	1615	24th June 1861	James Ferrabee.
Sewing-machines - - - - - (*Actuating the needle.*)	1681	2nd July 1861	Hobert Henry Bishop.
Certain improvements in machinery for spinning - (*Imparting variable speed to spindles, &c.*) (*Communicated by Messrs. Jules Harmel, Leon Harmel and Ernest Harmel.*)	1684	3rd July 1861	Henry Bernoulli Barlow.
An improved traction engine and apparatus applicable for the cultivation of land - -	1688	3rd July 1861	John Simonton.
Apparatus for grinding corn and other matters - (*Giving reciprocating movement to the spout.*) (*Communicated by Charles Placide Nézeraux.*)	1690	3rd July 1861	George Davies.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment. (*Driving feed aprons.*)	1694	3rd July 1861	John Petrie, junior.
Sewing-machines - - - - - (*Communicated by Louis Theodore Givry.*)	1696	3rd July 1861	Victor Charles Givry.
Machinery for applying the power of horses or other animals to drive mills or other machines.	1697	4th July 1861	John Patterson.
Certain machines used in preparing to be spun and in spinning cotton, wool and other fibrous substances - - - - -	1712	5th July 1861	Robert Lakin. John Wain.
An improvement or improvements in moveable spanners or screw wrenches.	1718	6th July 1861	Thomas Wilson.
Machinery for drilling and hoeing land - - (*Raising and lowering.*)	1735	9th July 1861	Alfred Priest. William Woolnough, junior.
Sewing-machinery - - - - -	1740	9th July 1861	John Keats. George Edward Keats.
Traction engines - - - - - (*Or for propelling machinery.*)	1744	10th July 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Self-acting mules for spinning cotton and other fibrous materials - - - - (*Regulating speed of spindles.*)	1764	13th July 1861	James Pickering. Henry Pickering. Nathan Pickering.
Improvements in horse rakes and cultivators, and in wheels for the same and other carriages -	1767	13th July 1861	Thomas Smith. George Taylor.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - - (*Traversing the catches of face ratchet wheels.*)	1769	15th July 1861	Edward Briggs. Samuel Fearnley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
An improved winding apparatus particularly adapted for steam ploughing, winding at pits, quarries and other such like purposes - -	1821	19th July 1861	William Savory. Paul Haines Savory.
Machinery for spinning and doubling cotton and other fibrous materials - - - - -	1832	20th July 1861	John Platt. John Buckley.
Machinery for cutting wood - - -	1846	23rd July 1861	Robert Thompson.
Machinery or apparatus for spinning cotton or other fibrous material.	1859	24th July 1861	Richard Threlfall.
Gimlets, augers and brace bits - - - (*Communicated by Washington Mears.*)	1864	25th July 1861	Frederick Dela Court Blyth.
Certain improvements in machinery or apparatus employed in spinning cotton, wool, silk and other fibrous substances - - - (*Adjustable rack.*)	1865	25th July 1861	Benjamin Brown. Richard Hacking.
Sewing-machines - - - - (*Communicated by the Grover and Baker Sewing Machine Company.*)	1879	27th July 1861	John Henry Johnson.
Mitre boxes and shooting boards - - -	1880	27th July 1861	Robert Elmy Garrood.
Reaping and mowing machines - - - (*Communicated by Nicholas Coones.*)	1898	30th July 1861	William Henry Ash.
Machinery for splitting, dividing or shaving leather or skins or sheets of manufactured fabrics.	1906	31st July 1861	Joseph Follansbee Flanders.
Improved mechanical contrivances increasing the effect of motive-power. (*Communicated by François Berger.*)	1952	6th Aug. 1861	Frederick Tolhausen.
Construction of sewing-machines - - - (*Communicated by William Cleveland Hicks.*)	1976	8th Aug. 1861	Alfred Vincent Newton.
An improvement in single thread sewing-machines (*Communicated by William Cleveland Hicks.*)	1977	8th Aug. 1861	Alfred Vincent Newton.
Improved machinery for sewing - - - (*Communicated by Amasa Howe.*)	1987	9th Aug. 1861	Alfred Vincent Newton.
Mules for spinning - - - - -	1989	9th Aug. 1861	James Gray. Thomas Kershaw. Benjamin Crowther. Alfred Dean.
Apparatus for sawing wood and other substances -	2005	12th Aug. 1861	Vincent Jankowski.
Machinery or apparatus for opening, cleaning and preparing cotton and other fibrous materials -	2011	13th Aug. 1861	Samuel Andrew. Stephen Hornby.
Machines for preparing to be spun cotton and other fibrous materials.	2016	14th Aug. 1861	William Robertson.
Transmitting motive-power especially applicable to piston propellers.	2041	15th Aug 1861	Richard Dover Chatterton.
An improved steam mill or apparatus for transmitting motive-power. (*Communicated by Charles Halphen.*)	2068	20th Aug. 1861	Richard Archibald Brooman.
Apparatus for transmitting motion to machinery -	2091	21st Aug. 1861	Thomas Green. Robert Mathers.
An improvement or improvements in reaping-machines. (*Actuating the knives.*)	2106	23rd Aug. 1861	Joseph Dunn.
Printing-machines - - - - -	2111	23rd Aug. 1861	Henry Ingle. James Ingle.
Sewing-machines - - - -	2143	28th Aug. 1861	William Stuart Guinness.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds. (*Adjusting the cutting plates.*)	2148	29th Aug. 1861	Samuel Corbett.
Apparatus for tilling land by steam power - -	2169	31st Aug. 1861	William Hensman. William Hensman, junior.
Apparatus for suspending and turning meat, fowls and such like articles for roasting.	2172	31st Aug. 1861	Thomas Moreton Jones.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines.	2215	5th Sept. 1861	Thomas Scott.
Improvements in machinery for sawing wood -	2220	5th Sept. 1861	Thomas Greenwood.
Improvements in the application of the Archimedean screw to the production and transmission of motive-power, and in the apparatus connected therewith. (*Communicated by Julius Sturm, C.E.*)	2224	6th Sept. 1861	Marc Antoine François Mennons.
Manufacture of crank shafts and crank axles and other similar articles - - - - -	2227	6th Sept. 1861	William Allott. John Thelwall.
Certain improvements in power looms for weaving -	2237	7th Sept. 1861	William Ainsworth. Ellis Heap. William Fielding. Eli Openshaw.
Sewing-machines - - - - - -	2257	10th Sept. 1861	James Smith.
Guns - - - - - - - (*Communicated by William McCord.*)	2284	13th Sept. 1861	William Edward Newton.
Improvements in traction and locomotive engines -	2296	14th Sept. 1861	George Hawksley.
Machinery for the manufacture of fishing and other nets (*Communicated by Messrs. Felix Marie Baudouin and Achille Baudouin and Jean Baptiste François Jouannin.*)	2340	19th Sept. 1861	William Clark.
Machinery for combing cotton and other fibrous material. (*Communicated by Cullen Whipple and Rufus Stafford.*)	2358	20th Sept. 1861	George Tomlinson Bousfield.
Mangles - - - - - - - -	2401	26th Sept. 1861	Henry Nunn.
Sewing-machines and apparatus connected therewith.	2423	28th Sept. 1861	William Newton Wilson.
Fire-arms - - - - - - - (*Traversing the sight leaf.*)	2453	2nd Oct. 1861	Andrew Wyley.
Construction of engines to be worked by steam, air or gases - - - - - - (*Actuating valves.*)	2455	2nd Oct. 1861	James Davis. Thomas Evans.
Improvements in machinery or in apparatus connected therewith in the manufacture of bonnet and cap fronts, rouches and millinery or other trimmings.	2462	2nd Oct. 1861	Charles Grey Hill.
Machinery for preparing and spinning cotton and other fibrous substances.	2486	4th Oct. 1861	Joseph Tweedale.
Improvements in the construction of ploughs, drills, scarifiers and such like agricultural implements, the said improvements relating to the mode of guiding or steering the same.	2487	5th Oct. 1861	John Lansley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Construction of combined thrashing and dressing machines.	2505	7th Oct. 1861	John Chaplin Willsher.
Manufacture of bobbin net or twist lace - -	2507	8th Oct. 1861	William Catford. John Sherwood Wheatley.
Improvements in the construction of printing-machines and in driving or actuating the same.	2511	8th Oct. 1861	Samuel Bremner.
Improvements in hammers to be worked by steam or other elastic fluid and in anvils for the same.	2519	9th Oct. 1861	John Norman.
Certain improvements in or applicable to self-acting mules for spinning - - - - -	2528	10th Oct. 1861	Thomas Peter Bennett. James Collier.
Certain improvements in machinery for preparing spinning and doubling cotton and other fibrous materials. (*Driving the spindles.*)	2547	12th Oct. 1861	Robert Edge.
Improvements in healds or heddles for weaving and in the machinery or apparatus for making the same.	2549	12th Oct. 1861	John Carter Ramsden.
Construction of grain and grass harvesters - (*Communicated by Edwin Perry Russell and Porter Tremain.*)	2576	16th Oct. 1861	Alfred Vincent Newton.
Steam hammers - - - - - - (*Giving motion to the valve.*)	2611	19th Oct. 1861	Thomas Fearnley.
Machinery or apparatus for combing cotton or other fibrous substances.	2622	21st Oct. 1861	John Smith.
Self-acting mules for spinning and doubling -	2624	21st Oct. 1861	Edward Oldfield.
Apparatus for measuring fluids - - - (*Actuating ratchet wheels.*)	2635	22nd Oct. 1861	Herbert Frost.
Planing-machines - - - - - -	2636	22nd Oct. 1861	George England.
Improvements in hydraulic presses and in the machinery and apparatus appertaining thereto and requisite in working the same, part of such improvements relating to the pumping machinery attached to hydraulic presses, and this part being applicable to pumping machinery employed for other purposes.	2638	22nd Oct. 1861	Frederick Oldfield Ward.
An improved mechanical kneading trough - -	2649	23rd Oct. 1861	Joseph Felix Victor Deliry.
Certain improvements in mules for spinning and doubling - - - - - -	2684	26th Oct. 1861	William Robertson. John Muir Hetherington.
Machinery for fluting rollers - - -	2698	28th Oct. 1861	William Ryder. Thomas Ryder.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	2742	1st Nov. 1861	James Higgins. Thomas Schofield Whitworth.
Machinery used when ploughing, tilling or cultivating land by steam power - -	2753	2nd Nov. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.
Machinery or apparatus for the manufacture of sugar.	2754	2nd Nov. 1861	John Charles Wilson.
Machinery for cutting wood - - - -	2762	2nd Nov. 1861	Samuel William Worssam.
Certain new and useful improvements in machinery for lasting and pegging shoes. (*Communicated by John Taggart.*)	2786	6th Nov. 1861	Herman D. Bradt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Boring apparatus such as is used for mining purposes. (*Actuating boring rods.*)	2813	9th Nov. 1861	George Simpson.
Improvements in processes for treating, preparing and combing certain fibrous materials, and in the machinery or apparatus employed for these purposes.	2826	11th Nov. 1861	William Tongue.
An improved apparatus for the multiplication of motive-power. (*Communicated by Eugène Constant Marie Bonnier.*)	2942	23rd Nov. 1861	Marc Antoine François Mennons.
An improved pump - - - -	2949	23rd Nov. 1861	Eugène Alexandre Rouvière, senior.
Certain improvements in machinery for carding and hackling flax, tow and other fibrous substances.	2954	25th Nov. 1861	George Lowry.
Machinery used for spinning hemp, flax, manilla, wool and like fibrous material, and for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	2955	25th Nov. 1861	James Ronald.
Reaping and mowing machines - - -	2957	25th Nov. 1861	William Burgess.
Improvements in sewing machines and in apparatus connected therewith. (*Communicated by Charles Henry Willcox.*)	2958	25th Nov. 1861	James Willcox.
Machinery or apparatus for preparing oval picture frames. (*Communicated by Robert Marcher.*)	2959	25th Nov. 1861	John Henry Johnson.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
Mowing and reaping machinery - - - (*Communicated by William Van Anden.*)	2989	27th Nov. 1861	Alfred Vincent Newton.
Machines for heckling and scutching flax and other vegetable fibres.	2995	27th Nov. 1861	William Rowan.
Wringing-machines - - - - (*Communicated by Francis Adams Cushman.*)	3010	29th Nov. 1861	Augustus Bryant Childs.
Certain improvements in winding or driving drums or pulleys - - - - -	3029	3rd Dec. 1861	James Burrows. Joseph Dougan.
Improvements in paper tubes and in the means or machinery for making or manufacturing the same.	3038	4th Dec. 1861	Charles Crabtree.
Scythes, scythe handles and apparatus for connecting the same.	3039	4th Dec. 1861	James Edward Boyd.
An improved arrangement of driving-gear - -	3042	4th Dec. 1861	Robert Kennedy. James Armstrong.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Construction of horse hoes - - -	3063	6th Dec. 1861	William Smith.
Machinery or apparatus for spinning and doubling cotton and other fibrous substances.	3091	10th Dec. 1861	Henry Spencer.
Looms for weaving - - - - -	3110	11th Dec. 1861	John Leeming.
Improvements in locomotive engines, parts of which improvements are also applicable to marine and stationary engines. (*Transmitting motion.*)	3120	12th Dec. 1861	Joseph Dominique Jobin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in looms for weaving and in the manufacture of cloth therefrom.	3155	16th Dec. 1861	David Chalmers.
Improved hoisting apparatus - - - (*Communicated by John James Doyle and James Christison.*)	3164	17th Dec. 1861	Alfred Vincent Newton.
Cotton gins - - - - - (*Communicated by Hiram Wilson Brown.*)	3181	19th Dec. 1861	Theodore Bourne.
Improvements in machinery or apparatus for giving motion to ships and machinery and for raising water - - - - -	3187	20th Dec. 1861	James Standfield. John Standfield.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*Feeding the pegs.*) (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson Bousfield.
Improvements in sewing machines - - -	3204	21st Dec. 1861	John Wakefield.
Improvements in boilers for the generation of steam, in engines for applying steam for motive-power purposes, and in wheels and ways for steam carriages to run on.	3211	21st Dec. 1861	Fraser Selby.
Improvements in apparatus for cleansing steam-boilers.	3234	26th Dec. 1861	James Shepherd.
Certain improvements in carding-engines - -	3238	27th Dec. 1861	William Hawksworth.
Improvements in rolling bridges - - -	3240	27th Dec. 1861	William Turner. John William Gibson.
Improvements in fire-arms and in adapting bayonets or cutting or piercing weapons thereto. (*Communicated by Mathieu Louis Michel Descoutures.*)	3251	28th Dec. 1861	Michael Henry.
Improvements in chains for giving motion to chain wheels and in giving motion to machinery - - - - -	3263	31st Dec. 1861	Thomas Green. Willoughby Green. Robert Mathers.
Certain improvements in sewing-machines - -	3269	31st Dec. 1861	William Henry Bailey.
For Driving-bands, *see* "STRAPS."			
PUMPS; PUMPING AND RAISING WATER AND OTHER LIQUIDS; PUMP PISTONS AND PACKINGS; SHIPS' PUMPS; BEER-ENGINES; TURBINES.			
Construction of rotary engines - - - (*Or pumps.*)	10	2nd Jan. 1861	John Taylor. Meshach Brittan Cooper.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Rotary engines applicable to be worked by water, steam or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
Improved apparatus for raising fluids - - (*Communicated by Pierre Léon St. Clair.*)	135	17th Jan. 1861	William Clark.
Pumps and the apparatus for working the same -	230	29th Jan. 1861	William Winstanley. Joseph Kelly. William Payne. John Formby.
Beer-engines - - - - -	234	29th Jan. 1861	John Walter Friend.
Valves - - - - - -	323	8th Feb. 1861	William Morris, junior.
Portable or fire pumps and apparatus connected therewith.	372	13th Feb. 1861	William Roberts.
Pumping-engines - - - -	453	22nd Feb. 1861	Andrew Barclay.
Pistons for pumps, steam engines or other purposes (*Communicated by Narcisse Ponche Joseph Scellier and Marie Pierre André Brasseur.*)	559	5th March 1861	George Henry Birkbeck.
Improvements in the pistons of steam-engines, and in the buckets and plungers for pumps.	573	6th March 1861	Joseph Hodgson.
Pumps - - - - - -	634	14th March 1861	John Hays Wilson.
Means or apparatus for raising and forcing water and other fluids.	810	2nd April 1861	John Hathornthwaite Winder.
A rotary cone being a new application of the centrifugal force to the purpose of raising and propelling fluid bodies.	857	8th April 1861	Hyacynthe Deheselle.
Condensers - - - - - - (*Available in case of leakage.*)	880	10th April 1861	Andrew Lamb.
Steam fire-engines and pumps - -	889	11th April 1861	James Shand. Samuel Mason.
An improved apparatus for raising liquids especially beer and wine from casks. (*Communicated by Mrs. Anne Frederique Diewan.*)	893	11th April 1861	Charles Stevens.
Apparatus applicable to steam-boilers and steam-engines. (*Packing for pump buckets.*)	928	16th April 1861	Samuel Ridge.
Ships and other pumps - - -	952	18th April 1861	Edward Morgan.
Machinery for steam vessels - - - (*Cylinder and plunger worked by hydraulic pressure.*)	1118	3rd May 1861	Edward Humphrys.
Improved hydraulic apparatus - - (*See* "TAPS.")	1151	7th May 1861	François Defaye.
Manufacture of gutta-percha and compounds thereof with other matters and substances. (*For pump buckets.*)	1166	8th May 1861	John Rolfe Hunt.
Manufacture of glass rollers, plungers and pipes applicable to pumps and other uses.	1233	14th May 1861	John Chedgey.
Apparatus for raising water and other fluids, which same apparatus may also be employed as a prime mover.	1327	27th May 1861	Thomas Moore.
Construction, steering and propelling of ships and other floating bodies, and appliances adapted thereto. (*And improvement in pumps.*)	1614	24th June 1861	Robert Moore.
Rotary steam-engines and pumps - - -	1746	11th July 1861	George Weston. James Weston.
Construction of steam-engines, air engines and pumps.	1794	17th July 1861	Andrew William Harnett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
Pumps applicable to steam and other fire-engines -	1925	3rd Aug. 1861	Moses Merryweather. Richard Moses Merryweather.
Machinery or apparatus for raising water and other fluids - - - - -	1974	8th Aug. 1861	Renil De Clercq. Emile Chazelles.
Pumps - - - - -	1990	9th Aug. 1861	Richard Alfred Godwin.
Improvements in screw or spiral propellers, also applicable to raising and forcing water.	2095	22nd Aug. 1861	Arthur Irwin Mahon.
Means or apparatus for raising and forcing fluids -	2101	22nd Aug. 1861	Thomas Francis Doyle.
Rotary pumps - - - - -	2105	23rd Aug. 1861	Mildred Blakey.
Portable pumps or engines for extinguishing fires and other purposes.	2187	2nd Sept. 1861	Joseph Hall.
Machinery or apparatus for producing a strong blast or current of air - - - - (*For lifting and forcing water.*)	2195	3rd Sept. 1861	Edmund Suckow. Edward Habel.
Counter or pillar beer engines - - -	2205	5th Sept. 1861	Henry Young.
Improvements in pumps chiefly applicable to ships' lift pumps.	2342	19th Sept. 1861	John Hays Wilson.
An improved double acting force or lift pump for ships, fire-engines and other purposes.	2344	19th Sept. 1861	John Graham.
Steam pumping-engines - - - - (*Communicated by Wellington Lee.*)	2422	28th Sept. 1861	John Adams Knight.
Pumps - - - - - -	2451	2nd Oct. 1861	Albert Demerit Bishop.
Pumps and stops used for working hydraulic presses	2535	10th Oct. 1861	James Downs.
An improved apparatus for heating the feed water of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2536	10th Oct. 1861	William Edward Newton.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
Improvements in hydraulic presses and in the machinery and apparatus appertaining thereto and requisite in working the same, part of such improvements relating to the pumping machinery attached to hydraulic presses and this part being applicable to pumping machinery employed for other purposes.	2638	22nd Oct. 1861	Frederick Oldfield Ward.
Means or apparatus for raising water or other fluids	2714	29th Oct. 1861	John Hayward.
Apparatus for raising water - - - (*Partly communicated by William Aldon.*)	2727	30th Oct. 1861	James Lee Norton.
Boring apparatus such as is used for mining purposes. (*Sludge pump.*)	2813	9th Nov. 1861	George Simpson.
Hydraulic cotton presses worked by steam - -	2886	16th Nov. 1861	David Stewart.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors - (*Beer-engines, &c.*)	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
Rotary engines - - - - - (*And pumps.*) (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Apparatus for raising and supplying water to boilers and for other purposes - - -	2933	22nd Nov. 1861	Renil De Clercq. Emile Chazelles.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
Improved means of rendering steam tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus for the rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.
An improved pump - - - - -	2949	23rd Nov. 1861	Eugène Alexandre Rouvière, senior.
Paper making machinery - - - - - (*Communicated by Louis Dupont.*)	2950	23rd Nov. 1861	Fédor De Wylde.
Machinery or apparatus for boring and winding purposes.	2987	27th Nov. 1861	Andrew Barclay.
Machinery for cooling and freezing water and other fluids. (*Communicated by Edouard Blée.*)	3005	28th Nov. 1861	Jules D'Adhémar de Labaume.
Pumps - - - - - - - - (*Communicated by Calvin Woodward and George Mills Woodward.*)	3041	4th Dec. 1861	William Edward Newton.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - - - (*Engines for pumping.*)	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Pumps - - - - - - - -	3048	5th Dec. 1861	John Knowelden.
Pumps - - - - - - - - - -	3051	5th Dec. 1861	William Dicks.
Rotary engines and pumps - - - - - (*Partly communicated by Eduard Rösch.*)	3065	6th Dec. 1861	Heinrich Gottfried Schramm.
Improvements in the construction of boilers or generators for steam-engines and other uses, applicable also to evaporators and in pumps used therewith or otherwise used, some of which improvements in pumps are applicable to pistons and piston rods generally.	3123	13th Dec. 1861	Stephen Barber Hewett.
Improvements in the mode of and apparatus for feeding steam-boilers, also in apparatus for supplying fluids for other purposes and in apparatus for raising fluids.	3126	13th Dec. 1861	Henry John Olding.
An improved water safety-valve - - -	3148	14th Dec. 1861	William Husband.
Improvements in the method of and apparatus for pumping elastic fluids.	3184	19th Dec. 1861	Joseph Henry George Wells.
Improvements in machinery or apparatus for giving motion to ships and machinery and for raising water - - - - - - -	3187	20th Dec. 1861	James Standfield. John Standfield.
Improvements in apparatus for raising or forcing water or other fluids. (*Communicated by Mr. Edward Bruce Boughton Barker.*)	3256	30th Dec. 1861	George Henry Birkbeck.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PURSES AND FASTENINGS.			
Pouches or receptacles for tobacco and other articles.	104	14th Jan. 1861	James Horsey.
Tobacco pouches, purses and other such like receptacles - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
Purses, bags, reticules, pocket-books, dressing-cases and other similar portable receptacles.	522	1st March 1861	John William Mott.
Fastenings for porte-monnaies, pocket-books, cigar-cases and similar articles. (*Communicated by Siegmund Rothschild.*)	1176	9th May 1861	Ferdinand Stern.
An improved fastening for purses, reticules, bags, belts, bands, pocket-books, cigar, writing and instrument cases, and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
Clasps or fastenings of purses, bags, portfolios, tobacco pouches and other like articles. (*Communicated by Mr. Joseph Schœnfeld.*)	2990	27th Nov. 1861	William Clark.
RAGS AND WASTE; SEPARATING FIBRES FROM FABRICS.			
Rag machines - - - - - -	1022	24th April 1861	Joseph Rhodes. Richard Kemp.
Machinery for the manufacture of paper - - (*Apparatus for washing rags.*)	1057	26th April 1861	Edmund Hamborough Joynson.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances. (*Rags, &c.*)	1204	11th May 1861	William Henry Tooth.
An improved method of bleaching coloured rags and vegetable fibres.	1543	17th June 1861	Thomas Gray.
Improved means or apparatus for doubling and twisting the threads of any textile matter with any material susceptible of being carded or combed. (*Communicated by Joseph Seraphin Mansion.*)	1618	25th June 1861	William Edward Gedge.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bake-houses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling-houses, streets, coal mines, railway tunnels, mineral mines, iron works. (*Applicable to rag machines.*)	1760	13th July 1861	George Rydill.
An improved method of preparing flax from old materials for spinning and other purposes.	1844	23rd July 1861	Thomas Gray.
Treating animal fibre recovered from rags composed of mixed animal and vegetable fibre - -	2165	30th Aug. 1861	Charles Worms. James Warburton.
Machinery or apparatus for preparing cotton, cotton waste or other fibrous materials to be spun -	2848	13th Nov. 1861	John Hodgkinson. Daniel Greenhalgh.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAGS, &c.—*continued.*			
Paper-making machinery - - - - (*Communicated by Louis Dupont.*)	2950	23rd Nov. 1861	Fédor De Wylde.
Improved machinery for cutting up linen, cotton, woollen and other rags, fibrous waste or vegetable substances for various purposes in the industrial arts.	2973	26th Nov. 1861	George Bottomley.
Improvements in apparatus used for collecting and removing the waste and dirt which occurs in the process of spinning cotton and other fibrous materials.	3183	19th Dec. 1861	Eli Stott.
RAILWAYS AND RAILWAY CARRIAGES.			
I.—Permanent Way, Rails, Rail-joints, Chairs, and Sleepers; Portable Railways, Atmospheric Railways, Tramways.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Valves for pneumatic railways.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Improvements in hardening the surfaces of the rails of railways and the surfaces of the tyres of railway wheels, and in charring the surfaces of timber to be used for railway sleepers and other purposes.	68	10th Jan. 1861	William Longmaid.
Wrought iron beams or girders and columns -	85	11th Jan. 1861	William George Woodcock.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Improved rolling machinery for rolling iron and other metals. (*For rails.*)	333	9th Feb. 1861	Charles While.
An improved mode of coupling the rails of railways (*Communicated by Joseph M. Heard.*)	410	19th Feb. 1861	Alfred Vincent Newton.
An improvement in railway chairs and being a combined chair and splice.	480	25th Feb. 1861	Edmund Forman Barnes.
Permanent way of railways - - - -	530	1st March 1861	Eugenius Birch. Herman Dirs Mertens.
Construction of roadways and tramways - -	555	5th March 1861	Thomas Scott.
Manufacture of rails for railways - - -	606	12th March 1861	Alexander Southwood Stocker.
Apparatus or means for preventing locomotive engines and carriages leaving the rails.	632	14th March 1861	Frederick Roessler.
Moulding and shaping metals - - - (*Rails.*)	639	14th March 1861	James Hunter.
Improvements in street railways and railways on common roads, and in locomotive engines and carriages for the said railways.	676	18th March 1861	John Arrowsmith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
An improved method of locking the nuts on railroad rail bolts. (*Communicated by Messrs. Henry Lawrence, Charles Harcourt White and Thomas Washington White.*)	721	22nd March 1861	William Clark.
Improvements in rails for tramroads and in laying down the same in streets and highways.	746	25th March 1861	Sidney Alexander Beers.
Certain improvements in starting and retarding or stopping railway trains - - - - (*Sanding the rails.*)	823	3rd April 1861	John Seville. Walter Lawton.
Street railways and wheels and apparatus to be used therewith.	830	4th April 1861	William Albert Shepard.
Improvements in the manufacture of nails, railway spikes or pins and gas tube fastenings, and in machinery employed in the said manufacture -	839	5th April 1861	David Brown. Noah Fellows. Edward Jones. William Brown.
An improved arrangement of atmospheric post for the transmission of letters, papers and other despatches and articles in tubes. (*Communicated by François Antoine Kieffer.*)	945	17th April 1861	William Clark.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.
Rails for street railroads - - - -	1148	7th May 1861	Sidney Alexander Beers.
Endless or portable railways for facilitating the traction or draught of vehicles.	1187	10th May 1861	Andrew Dunlop.
Improvements in the manufacture of wooden keys and treenails for railways and shipping, and in machinery employed therein.	1197	11th May 1861	William Wilson.
Machinery and apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
Railway chairs and fastenings - - -	1267	17th May 1861	Peter Ashcroft.
Manufacture or construction of railway chairs and their fastenings, the latter being applicable to other purposes.	1292	21st May 1861	George Featherstone Griffin.
Improvements applicable to railways for the purpose of facilitating the transport of carriages containing goods and passengers across arms of the sea, rivers, lakes or inland waters. (*Communicated by Monsieur Mallat de Bassilan.*)	1438	6th June 1861	William Edward Newton.
Manufacture of railway sleepers - - -	1441	7th June 1861	John Vaughan.
Permanent way of railways - - - -	1465	8th June 1861	James Rymer.
Permanent way of railways - - - -	1657	28th June 1861	Michael Lane.
An improved railway chair for railways - -	1685	3rd July 1861	Robert Richardson.
An improved traction engine and apparatus applicable for the cultivation of land. (*Endless railway.*)	1688	3rd July 1861	John Simonton.
Permanent way of railways - - - -	1843	23rd July 1861	George Featherstone Griffin.
Securing or fastening nuts for railway fish plates and for other purposes - - - -	1874	26th July 1861	Frederick Johnson. Bartholomew Hockin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Street or road rails for omnibuses and other vehicles	1889	29th July 1861	William Busby. Daniel Busby.
An improved wheelbarrow wagon (*Used in excavating railways.*) (*Communicated by Jean-Matthieu Rey, junior.*)	1963	7th Aug. 1861	Edward Thomas Hughes.
Manufacture of horse shoes, boot heels, wheel tyres, rails and safes	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
Trams to be used in connection with the wheels of carriages on common roads.	2063	20th Aug. 1861	George Ingram.
Improvements in the construction of roadways (*And tramways.*)	2199	4th Sept. 1861	Thomas Scott.
Machinery for rolling iron or other metals (*Railway bars.*)	2218	5th Sept. 1861	John Napier.
Permanent way of railways	2376	23rd Sept. 1861	James Price.
Permanent way of railways (*Communicated by Laurent Rigolier.*)	2476	4th Oct. 1861	Edward Thomas Hughes.
Manufacture of railway fastenings and a mode of preparing rails and fish plates to receive them.	2541	11th Oct. 1861	Robert Richardson.
Apparatus for bending iron rails or bars (*Communicated by Henri Nicolas Rogé.*)	2538	10th Oct. 1861	William Clark.
Endless railways	2568	15th Oct. 1861	John Gilbert.
Sleeper chairs for the permanent way of railways	2616	19th Oct. 1861	Charles De Bergue.
Improvements in railways and in iron pavements and railways combined, parts of which improvements are applicable to the construction of railway chairs and to cast iron pavements for ordinary streets. (*Communicated by Barzillai Coat Smith.*)	2652	23rd Oct. 1861	George Davies.
Railways	2660	24th Oct. 1861	Alexander Francis Campbell.
An improved mode of constructing and fixing the rails of railways.	2897	18th Nov. 1861	Charles Marie Pouillet.
Certain improvements in rails for permanent ways	3009	29th Nov. 1861	Thomas Ellis.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Manufacturing moulded earthen or stoneware cross sleepers for superseding wooden ones in the construction of railways.	3133	13th Dec. 1861	Pierre Quantin.
Improvements in boilers for the generation of steam in engines for applying steam for motive-power purposes, and in wheels and ways for steam carriages to run on. (*Tramway.*)	3211	21st Dec. 1861	Fraser Selby.
Improvements in the permanent way of railways	3253	30th Dec. 1861	John Edwards.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
II.—Railway Switches, Points, Crossings and Turntables.			
Portable apparatus for transporting locomotive engines and trains from one line of rails to another.	547	4th March 1861	Samuel Anderson Emery.
Construction of turntables - - - - (*Communicated by Jean Joseph Adolphe Poulet.*)	915	13th April 1861	Charles Denton Abel.
Construction of radial traversing carriages - -	1128	4th May 1861	Edward Pease Smith.
Machinery and apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
Improvements in the construction of girders, frames or other apparatus fixed or moveable, and for certain peculiar forms or sections of iron used therein. (*For railway turntables.*)	2102	22nd Aug. 1861	William Baines.
III.—Railway Carriages; Coupling, Uncoupling and Altering Position of Carriages and Engines.			
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Construction of railway and other carriages - - (*Communicated by Samuel J. Seely.*)	118	15th Jan. 1861	Alfred Vincent Newton.
Construction of certain kinds of passenger carriages. (*Communicated by Joseph Harris, junior.*)	119	15th Jan. 1861	Lucius Aurelius Bigelow.
Improved spring apparatus applicable to bedsteads and other articles to which springs may be applied. (*Railway carriage seats.*)	202	25th Jan. 1861	Samuel Needham.
Construction and internal arrangement of railway carriages. (*Communicated by Edward Burke and Thomas A. Andrews.*)	253	30th Jan. 1861	John Henry Johnson.
Improvements in apparatus for providing against accidents in hoisting-machinery, part of which improvements are applicable to railway carriage coupling links - - - - -	288	4th Feb. 1861	David Walmsley. John Rostron.
Carriage building - - - - -	292	4th Feb. 1861	Edward Charles Morgan.
Railway carriages - - - - -	294	4th Feb. 1861	John Murray.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented. (*Carriages.*)	306	6th Feb. 1861	Thomas Gee.
An improved method of applying springs to railway and other carriages.	442	22nd Feb. 1861	James Ball Mannix.
Springs - - - - - -	477	25th Feb. 1861	William Frederick Henson.
Improved apparatus for arresting the progress of railway accidents. (*Coupling the carriages.*)	600	11th March 1861	George Williams Baker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
India-rubber springs for railway and other uses -	613	13th March 1861	George Spencer.
Apparatus or means for preventing locomotive engines and carriages leaving the rails.	632	14th March 1861	Frederick Roessler.
Railway carriage buffer and other springs - -	670	16th March 1861	William Frederick Henson.
New or improved machinery or apparatus for fixing the windows of railway and other carriages at any required height.	675	18th March 1861	John Arrowsmith.
Improvements in street railways and railways on common roads, and in locomotive engines and carriages for the said railways.	676	18th March 1861	John Arrowsmith.
An improved fastening or coupling - - (*Applicable to railway carriages.*)	702	20th March 1861	Joseph Eden McDoual.
Construction of springs - - - -	1036	25th April 1861	Perry Green Gardiner.
Construction of radial traversing carriages - -	1128	4th May 1861	Edward Pease Smith.
Railway carriages and locomotive engines - -	1138	6th May 1861	William Johnson.
Springs for railroad cars and for carriages, and for many other purposes for which springs are used or required.	1245	16th May 1861	Alexander T. Watson.
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Buffing and coupling apparatus for railway carriages - - - - - - (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham. Harrington Schenley.
Improvements applicable to railways for the purpose of facilitating the transport of carriages containing goods and passengers across arms of the sea, rivers, lakes or inland waters. (*Communicated by Monsieur Mallat de Bassilan.*)	1438	6th June 1861	William Edward Newton.
Improvements in omnibuses for street railways, part of which is applicable to other carriages.	1683	2nd July 1861	Samuel Adams.
Locomotive engines and trains - - -	1757	12th July 1861	William Bridges Adams.
An improved combined locomotive engine and carriage. (*Communicated by Heinrich Ehrhardt.*)	1780	15th July 1861	Otto John Theodore Gössell.
Means of connecting and disconnecting engines and tenders to and from trains.	2259	11th Sept. 1861	Richard Restell.
Manufacture or construction of springs for railway or other vehicles.	2668	25th Oct. 1861	William Wharton.
Construction of metallic railroad cars and other vehicles.	2680	25th Oct. 1861	Bernard Joachim La Mothe.
Means of securing the doors of railway carriages -	2734	31st Oct. 1861	John Americus Fanshawe. James Archibald Jaques.
Railway rolling stock - - - - (*Communicated by Thomas Jefferson Thompson.*)	3149	14th Dec. 1861	John Henry Johnson.
Improvements in the arrangement of traction and connecting apparatus for railway carriages and trains. (*Communicated by M. Claude Arnoux.*)	3227	24th Dec. 1861	George Henry Birkbeck.
See also "WHEELS FOR CARRIAGES." *See also* "AXLES." *For* Ventilating Railway Carriages, *see* "VENTILATION."			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
IV.—Railway Buffers and Breaks; Retarding and Stopping Trains; Preventing Collisions, &c.			
Breaks applicable to carriages and rolling stock used on railways and elsewhere. (*Communicated by Philippe Louis Aimé Stilmant and Louis Anne Felix Allain.*)	3	1st Jan. 1861	Michael Henry.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Breaks for locomotive engines	74	11th Jan. 1861	William Henry Muntz.
A railway break	343	11th Feb. 1861	William Saint Thomas Clarke.
Improved apparatus for working the breaks of railway trains.	362	13th Feb. 1861	Adolf Ellissen.
Railway breaks	385	15th Feb. 1861	William Henry Mansbridge.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
An improved method of applying breaks to the wheels of railway and other carriages.	431	21st Feb. 1861	John Longshaw.
Breaks applicable to railway carriages (*Communicated by Augustin Castellvi.*)	433	21st Feb. 1861	William Edward Newton.
An improved construction of railway buffer	550	4th March 1861	George Wilson, junior.
Breaks for railway rolling stock	580	7th March 1861	Nicolas Auguste Pouard.
Improved apparatus for arresting the progress of railway accidents.	600	11th March 1861	George Williams Baker.
India-rubber springs for railway and other uses	613	13th March 1861	George Spencer.
Railway breaks	657	15th March 1861	John Watkins.
Railway carriage buffer and other springs	670	16th March 1861	William Frederick Henson.
A new or improved steam brake (*See* "GOVERNORS.")	821	3rd April 1861	Thomas Wright. Hugh Wright.
Certain improvements in starting and retarding or stopping railway trains	823	3rd April 1861	John Seville. Walter Lawton.
Railway brakes	840	5th April 1861	Charles Storer. Richard Jones. James Storer.
Improvements in apparatus used for retarding and stopping railway carriages, and in the construction of railway axles.	1007	23rd April 1861	John Marshall.
Improvements in locomotive steam-engines and in buffer and draw springs for the same, and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Buffing and coupling apparatus for railway carriages (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham. Harrington Schenley.
Railway brakes	1450	7th June 1861	William Leopard.
Breaks for railroad cars (*Communicated by Conrad B. Lashar.*)	1579	19th June 1861	George Tomlinson Bousfield.
Railway break apparatus	1663	29th June 1861	William Leopard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Apparatus in connection with railway carriage buffers for preventing damage in cases of railway collision.	1747	11th July 1861	Patrick Adie.
Machinery and apparatus for retarding and stopping railway engines and carriages.	1908	1st Aug. 1861	Herbert John Walduck.
Railway breaks - - - - - -	1995	10th Aug. 1861	William Saint Thomas Clarke.
Improved breaking apparatus for railway and other vehicles. (*Communicated by Alfred Tabuteau.*)	2002	12th Aug. 1861	William Edward Gedge.
Apparatus connected with railway breaks - -	2003	12th Aug. 1861	William Edwards. Eli Edwards.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
An improved apparatus for stopping railway trains	2198	4th Sept. 1861	Archibald White.
Improvements in self-acting brakes applicable to railway or locomotive engines and carriages. (*Communicated by Léon Isidore Molinos.*)	2201	4th Sept. 1861	William Edward Newton.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines. (*So as to act as a break.*)	2215	5th Sept. 1861	Thomas Scott.
Railway wheels and railway brakes - - -	2261	11th Sept. 1861	John Bowns.
Improved apparatus to be adapted to carriages for the purpose of checking or arresting their progress on inclines or when going down hill. (*Communicated by William Goode Caporn.*)	2297	14th Sept. 1861	William Edward Newton.
Improvements in railway breaks and in apparatus for actuating the same.	2357	20th Sept. 1861	William Godley Creamer.
Buffers of railway carriages - - - - -	2454	2nd Oct. 1861	Alfred Fowler.
Railway brake apparatus - - - - -	2873	14th Nov. 1861	William Leopard.
Means of stopping or retarding railway and other carriages.	2929	22nd Nov. 1861	Hermann Christian Meyer.
An improved safety buffer or apparatus to be used in railway trains to prevent accidents from collisions. (*Communicated by Richard Dover Chatterton.*)	3014	29th Nov. 1861	Richard Archibald Brooman.
See also "SIGNALS."			
REAPING, MOWING, MAKING HAY.			
Reaping and mowing machines - - -	8	2nd Jan. 1861	John Finney Belfield.
Reaping and mowing machines - - - (*Communicated by Jean Louis Dewaroquier.*)	201	25th Jan. 1861	Richard Archibald Brooman.
Reaping machines and grass mowing machines -	452	22nd Feb. 1861	Robert Cuthbert. William Cuthbert.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
IV.—Railway Buffers and Breaks; Retarding and Stopping Trains; Preventing Collisions, &c.			
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Improved apparatus for working the breaks of railway trains.	362	13th Feb. 1861	Adolf Ellissen.
Railway breaks	385	15th Feb. 1861	William Henry Mansbridge.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
An improved method of applying breaks to the wheels of railway and other carriages.	431	21st Feb. 1861	John Longshaw.
Breaks applicable to railway carriages (*Communicated by Augustin Castellvi.*)	433	21st Feb. 1861	William Edward Newton.
An improved construction of railway buffer	550	4th March 1861	George Wilson, junior.
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Improved apparatus for arresting the progress of railway accidents.	600	11th March 1861	George Williams Baker.
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Railway brakes	840	5th April 1861	Charles Storer. Richard Jones. James Storer.
Improvements in apparatus used for retarding and stopping railway carriages, and in the construction of railway axles.	1007	23rd April 1861	John Marshall.
Improvements in locomotive steam-engines and in buffer and draw springs for the same, and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Buffing and coupling apparatus for railway carriages (*Communicated by Archibald Hamilton Rowand.*)	1330	27th May 1861	Lord Alfred Spencer Churchill. Edward Wyndham. Harrington Schenley.
Railway brakes	1450	7th June 1861	William Leopard.
Breaks for railroad cars (*Communicated by Conrad B. Lashar.*)	1579	19th June 1861	George Tomlinson Bousfield.
Railway break apparatus	1663	29th June 1861	William Leopard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Apparatus in connection with railway carriage buffers for preventing damage in cases of railway collision.	1747	11th July 1861	Patrick Adie.
Machinery and apparatus for retarding and stopping railway engines and carriages.	1908	1st Aug. 1861	Herbert John Walduck.
Railway breaks - - - - -	1995	10th Aug. 1861	William Saint Thomas Clarke.
Improved breaking apparatus for railway and other vehicles. (*Communicated by Alfred Tabuteau.*)	2002	12th Aug. 1861	William Edward Gedge.
Apparatus connected with railway breaks - -	2003	12th Aug. 1861	William Edwards. Eli Edwards.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
An improved apparatus for stopping railway trains	2198	4th Sept. 1861	Archibald White.
Improvements in self-acting brakes applicable to railway or locomotive engines and carriages. (*Communicated by Léon Isidore Molinos.*)	2201	4th Sept. 1861	William Edward Newton.
Apparatus for utilizing the surplus momentum of railway trains and other moving bodies, and the waste and surplus power of locomotive and other engines. (*So as to act as a break.*)	2215	5th Sept. 1861	Thomas Scott.
Railway wheels and railway brakes - - -	2261	11th Sept. 1861	John Bowns.
Improved apparatus to be adapted to carriages for the purpose of checking or arresting their progress on inclines or when going down hill. (*Communicated by William Goode Caporn.*)	2297	14th Sept. 1861	William Edward Newton.
Improvements in railway breaks and in apparatus for actuating the same.	2357	20th Sept. 1861	William Godley Creamer.
Buffers of railway carriages - - - - -	2454	2nd Oct. 1861	Alfred Fowler.
Railway brake apparatus - - - - -	2873	14th Nov. 1861	William Leopard.
Means of stopping or retarding railway and other carriages.	2929	22nd Nov. 1861	Hermann Christian Meyer.
An improved safety buffer or apparatus to be used in railway trains to prevent accidents from collisions. (*Communicated by Richard Dover Chatterton.*)	3014	29th Nov. 1861	Richard Archibald Brooman.
See also "SIGNALS."			
REAPING, MOWING, MAKING HAY.			
Reaping and mowing machines - - -	8	2nd Jan. 1861	John Finney Belfield.
Reaping and mowing machines - - - (*Communicated by Jean Louis Dewaroquier.*)	201	25th Jan. 1861	Richard Archibald Brooman.
Reaping machines and grass mowing machines -	452	22nd Feb. 1861	Robert Cuthbert. William Cuthbert.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
REAPING, &c.—*continued.*			
An improvement in the cutting apparatus of harvesters.	476	25th Feb. 1861	William Gale Smith.
A new or improved machine for gathering and binding the sheaves or gavels of corn or other harvest produce, applicable to harvesting machines. (*Communicated by Philippe Durand, Esq.*)	523	1st March 1861	Frederick Tolhausen.
Certain improvements in machinery or apparatus for mowing and reaping - - -	570	6th March 1861	Joseph Statham. William Statham.
An improvement in reaping machines - -	696	20th March 1861	John Ridley.
Reaping and mowing machines - - -	803	1st April 1861	Robert James.
Machinery for cutting and harvesting grain, grass and other substances. (*Communicated by William Van Anden.*)	822	3rd April 1861	William Edward Newton.
Reaping and mowing machines - - -	824	3rd April 1861	Adam Carlisle Bamlett.
Cutting apparatuses for reaping and mowing machines.	967	19th April 1861	John Ridley.
Reaping machines - - - - -	1072	29th April 1861	François Antoine Thonier.
An improved reaping machine to be called "comb beater." (*Communicated by Napoleon Gorel.*)	1249	16th May 1861	Henry Gilbee.
Reaping and mowing machines - - -	1254	16th May 1861	John Leakey Bowhay.
Tractomotives or engines for running upon earth or on common roads. (*For cutting and collecting produce.*) (*Communicated by Mr. Simon Stevens.*)	1279	18th May 1861	Benjamin Franklin Stevens.
An improved horse rake - - - -	1321	25th May 1861	Henry Waller.
Improvements in machines for making and collecting hay and for collecting similar substances, parts of which improvements are applicable to cutting thistles and other weeds.	1333	27th May 1861	William Newzam Nicholson.
Reaping and mowing machines - - -	1347	30th May 1861	William Peacock Savage.
Horse rakes and harrows - - - -	1349	30th May 1861	Charles Garrood.
Reaping and mowing machines - - - (*Communicated by Thomas Robinson.*)	1379	1st June 1861	Robert Charles Ransome.
Reaping and mowing machines - - -	1384	3rd June 1861	William Harwood.
Hay-making machines - - - -	1461	8th June 1861	James Howard. Edward Tenney Bousfield.
An improved reaping and mowing machine - - (*Communicated by Victor Emile Douat Duchataux.*)	1502	12th June 1861	William Edward Gedge.
Hay-making machines - - - -	1532	14th June 1861	Thomas William Wedlake.
An improvement in the construction of reaping and mowing machines.	1667	29th June 1861	Isaac Bragg.
A certain improved method of and apparatus for facilitating the process of grass edge cutting or edge cutting in general - - - -	1724	6th July 1861	Louis Augustin Keily. William Archdall O'Doherty.
Improvements in horse rakes and cultivators, and in wheels for the same and other carriages -	1767	13th July 1861	Thomas Smith. George Taylor.
Grass mowing-machines - - - - (*Communicated by William Anson Wood and John Milton Rosebrooks.*)	1857	24th July 1861	William McIntyre Cranston.
Reaping and mowing machines - - - (*Communicated by Nicholas Coones.*)	1898	30th July 1861	William Henry Ash.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
REAPING, &c.—*continued.*			
A new or improved reaping and mowing machine -	2007	13th Aug. 1861	Joseph Humpage.
Machinery for digging or turning up soil, mowing, reaping and other agricultural purposes.	2060	19th Aug. 1861	William Firth.
Harvesting-machines - - - - - (*Partly communicated by Owen Dorsey.*)	2097	22nd Aug. 1861	Bernhard Samuelson.
An improvement or improvements in reaping-machines.	2106	23rd Aug. 1861	Joseph Dunn.
Harvesting-machines - - - -	2314	17th Sept. 1861	Bernhard Samuelson.
Certain improvements in machinery and apparatus for mowing and reaping - - -	2320	17th Sept. 1861	Joseph Statham. William Statham.
Reaping and mowing machines - - - (*Communicated by Nicholas Coones.*)	2327	18th Sept. 1861	Henry Wickens.
Horse rakes - - - - - - -	2418	27th Sept. 1861	Samuel Rowsell.
Construction of grain and grass harvesters - - (*Communicated by Edwin Perry Russell and Porter Tremain.*)	2576	16th Oct. 1861	Alfred Vincent Newton.
Reaping-machines - - - - - (*Communicated by Cyrus Hall McCormick.*)	2641	22nd Oct. 1861	Richard Archibald Brooman.
Reaping and mowing machines - - -	2884	16th Nov. 1861	Matthew Gibson.
Reaping-machines - - - - - (*Communicated by Cyrus Hall McCormick.*)	2896	18th Nov. 1861	Richard Archibald Brooman.
Reaping and mowing machines - - -	2957	25th Nov. 1861	William Burgess.
Mowing and reaping machinery - - - (*Communicated by William Van Anden.*)	2989	27th Nov. 1861	Alfred Vincent Newton.
Cultivators, horse hoes and horse rakes - -	3019	30th Nov. 1861	John Cooper. Charles Garrood.
Scythes, scythe handles, and apparatus for connecting the same.	3039	4th Dec. 1861	James Edward Boyd.
An improvement in the construction of hay-making machines.	3064	6th Dec. 1861	James Howard.
Improvements in lawn mowing, rolling and collecting machines - - - - -	3201	20th Dec. 1861	Thomas Green. Willoughby Green. Robert Mathers.
Improvements in machines for reaping, gathering and binding harvest produce. (*Communicated by Philippe Durand, Esq.*)	3254	30th Dec. 1861	Frederick Tolhausen.
REFLECTORS FOR LAMPS; REFLECTION OF LIGHT.			
Construction of houses and footways - - (*Arrangement of reflectors for lighting.*)	624	13th March 1861	Julius Jeffreys.
A new optical apparatus for reproducing and varying all sorts of drawings, which apparatus they call goniometroscope - - -	813	2nd April 1861	Adolphe Huray. Herman Leilé.
Optical and illuminating apparatus - - (*Communicated by William Ferdinand Count de Douhet.*)	2083	21st Aug. 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
REFLECTORS, &c.—*continued.*			
An improvement in the light given by street and other lamps, by means of reflectors in white earthenware, china and all enamel materials, in conjunction with an improved chimney to draw up the exhalations and smoke of all lighting materials.	2316	17th Sept. 1861	Frederic Barnett.
Lamps - - - - - -	2591	18th Oct. 1861	William Croome.
Improvements in deflectors for lamps - - (*Communicated by Lemuel Beers.*)	3267	31st Dec. 1861	William Spence.
RETORTS AND CRUCIBLES.			
Core barrels for casting pipes, cylinders, retorts and other like hollow articles - - -	194	24th Jan. 1861	Thomas Gibson. William Knighton. Henry Knighton.
Machinery or apparatus for pulverizing clay and other materials. (*For making crucibles.*) (*Communicated by Messrs. Léon and Edouard Pavin de Lafarge.*)	199	25th Jan. 1861	Edward Thomas Hughes.
An improvement or improvements in the manufacture of melting pots or crucibles.	213	26th Jan. 1861	Robert Mushet.
Apparatus for the manufacture of articles of earthenware and of other plastic materials. (*Crucibles.*)	470	23rd Feb. 1861	Thomas Spencer.
Glass stoppers applicable to feeding-bottles, retorts and other vessels.	692	19th March 1861	George Wilson.
Certain improved filtering agents one of which is applicable in the manufacture of crucibles -	1062	27th April 1861	Thomas Vaughan Morgan. Julius Gustav Dahlke.
Apparatus for re-burning animal charcoal - -	1640	26th June 1861	John Cowan.
Apparatus for re-burning animal charcoal - -	2029	15th Aug. 1861	Stephen Carey. William Morgan Pierce.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
Apparatus for the manufacture of gas - -	2473	3rd Oct. 1861	William Malam.
Improved apparatus for generating gas - -	2504	7th Oct. 1861	Frederick John Evans.
Ovens, kilns or furnaces for manufacturing or other purposes - - - - -	2646	23rd Oct. 1861	Claude Brison. Antoine Chavanne.
Apparatus for the manufacture of gas, parts of which are also applicable for cooking purposes.	2795	7th Nov. 1861	John Richardson Wigham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RETORTS, &c.—*continued.*			
An improvement or improvements in treating coal and other bituminous minerals and peat in order to obtain solid and liquid hydro-carbons therefrom, and in apparatus to be used for that purpose.	3208	21st Dec. 1861	William Mattieu Williams.
ROPES, CORDAGE, TWINE, OAKUM, WIRE ROPES.			
Improved machinery or apparatus for picking and cleaning "oakum" and for spinning or twisting the same, for the purpose of calking ships or vessels.	172	22nd Jan. 1861	Edward Ellis.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used - - - - - (*For spinning ropes.*)	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For making cables, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Machinery for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	1352	30th May 1861	James Ronald.
Means or apparatus for finishing and drying thread, twine, cords and ropes.	1356	31st May 1861	William Bywater.
Improvements in machinery for doubling and twisting yarns and threads, and for manufacturing wire rope. (*Communicated by Mr. Antoine Ratignes.*)	1967	7th Aug. 1861	Louis William Viollier.
Improved machinery for twisting and laying flax, hemp and other fibrous materials. (*Making laid cord.*)	2193	3rd Sept. 1861	Daniel Ward.
Machinery for weaving cords and ropes - -	2557	14th Oct. 1861	Edouard René Marie Vigneron de la Jousselandière.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ROPES, &c.—*continued.*			
Machinery used for spinning hemp, flax, manilla, wool and like fibrous material, and for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	2955	25th Nov. 1861	James Ronald.
Improvements in the manufacture of ropes -	3255	30th Dec. 1861	James Gordon. Bartholomew Henderson.
Improved machinery for the manufacture of laid and other twine, lines, ropes, bands and other cordage whether made of hemp, flax or other fibrous substances, or of wire.	3258	30th Dec. 1861	John Bellamy Payne.
For Telegraphic Cables, *see* "TELEGRAPHS."			
SALT.			
Improvements for economising fuel in evaporating and concentrating chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith. (*Manufacture of salt.*)	1462	8th June 1861	Joseph Roman.
Apparatus for heating and evaporating brine in the manufacture of salt.	2926	21st Nov. 1861	John Stubbs.
SEWING AND EMBROIDERING.			
Sewing-machines - - - - - (*Communicated by Jacques Marie Clement de Bras and Gabriel Léonord Bongard.*)	30	5th Jan. 1861	Henry Gilbee.
Sewing-machines - - - - - (*Communicated by Theodore Stuart Washburn.*)	89	12th Jan. 1861	George Whight.
Sewing-machines particularly applicable to the stitching or sewing of gloves and other articles where circular or partially circular parts are to be connected together. (*Communicated by Edouard Paul Lecerf.*)	187	23rd Jan. 1861	Richard Archibald Brooman.
An improvement or improvements in sewing-machines.	232	29th Jan. 1861	John Robertson.
Sewing-machines - - - - -	270	1st Feb. 1861	Walter Hart.
Improvements in sewing-machines and in apparatus connected therewith - - - -	285	2nd Feb. 1861	William Newton Wilson. William Tertius Rowlett.
Embroidering or ornamenting woven fabrics, felts or other similar materials.	314	8th Feb. 1861	Adolphe Drevelle.
Sewing and embroidering machines - - (*Communicated by Louis Alphonse Maureau.*)	367	13th Feb. 1861	William Clark.
Sewing-machines - - - - - (*Communicated by The Grover and Baker Sewing Machine Company*).	399	18th Feb. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SEWING, &c.—*continued.*			
An improved method of treating needles used in sewing and other machines, applicable also to those parts of such machines that hold the needles, and applicable to all other descriptions of needles, and to scissors and to thimbles treated in like manner.	416	20th Feb. 1861	Benjamin Nicoll.
Improved machinery for making boots and shoes - (*Communicated by George Chandler Prior.*)	483	25th Feb. 1861	Lucius Aurelius Bigelow.
Machinery for making frills - - - - -	603	11th March 1861	William Tillie.
Embroidering-machines - - - - -	713	21st March 1861	Alfred Heaven. Robert Smith.
Sewing-machines - - - - - - (*Communicated by James Frost.*)	716	22nd March 1861	William McIntyre Cranston.
Motive-power for sewing-machines - - -	802	1st April 1861	James Edward Boyd.
Machinery or apparatus for stitching, uniting and ornamenting leather and other similar materials. (*Communicated by Elmer Townsend.*)	816	2nd April 1861	John Sickels.
Sewing-machines - - - - - - (*Communicated by William Sparks Thomson.*)	996	22nd April 1861	George Washington Belding.
Machines for making pointed tape trimming - (*Communicated by William Sparks Thomson.*)	997	22nd April 1861	George Washington Belding.
Sewing-machines - - - - - -	1034	25th April 1861	Charles Callebaut.
An improved combination of sewing-machine -	1045	25th April 1861	Silas Covell Salisbury. James Starley.
Sewing-machinery - - - - - -	1059	26th April 1861	Silas Covell Salisbury. James Starley.
Sewing-machines - - - - - - (*Communicated by W. Cleaveland Hicks.*)	1083	1st May 1861	John Sickels.
Manufacture of trimmings - - - - (*In a sewing-machine.*) (*Communicated by James Wilcox and Hector Tyndale.*)	1116	3rd May 1861	Alexander Wight.
An improved feed motion for sewing-machines -	1179	9th May 1861	Isaac Merritt Singer.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies (*In conjunction with sewing-machines.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Certain new and useful improvements in machinery for sewing cloth or other material.	1530	14th June 1861	Albert Francis Johnson.
Certain improvements in or applicable to sewing-machines.	1649	28th June 1861	James Gibson.
Manufacture of needle or tapestry work and coloured embroiderings.	1676	2nd July 1861	Sophia Helbronner-Gerstle.
Sewing-machines - - - - -	1681	2nd July 1861	Hobert Henry Bishop.
Sewing-machines - - - - - - (*Communicated by Louis Theodore Givry.*)	1696	3rd July 1861	Victor Charles Givry.
Sewing-machinery - - - - - -	1740	9th July 1861	John Keats. George Edward Keats.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SEWING, &c.—*continued.*			
Sewing-machines particularly applicable to quilting and braiding.	1782	15th July 1861	John Mabson.
Sewing-machines - - - - - (*Communicated by the Grover and Baker Sewing Machine Company.*)	1879	27th July 1861	John Henry Johnson.
Construction of sewing-machines - - - (*Communicated by William Cleveland Hicks.*)	1976	8th Aug. 1861	Alfred Vincent Newton.
An improvement in single thread sewing-machines (*Communicated by William Cleveland Hicks.*)	1977	8th Aug. 1861	Alfred Vincent Newton.
Improved machinery for sewing - - - (*Communicated by Amasa Howe.*)	1987	9th Aug. 1861	Alfred Vincent Newton.
Improvements in textile fabrics for embroidery trimmings and other ornamental purposes, and machinery employed in making the fabrics into trimmings.	2043	16th Aug. 1861	John Livesey.
Attachments or apparatus for sewing-machines - (*Communicated by Amasa B. Howe.*)	2086	21st Aug. 1861	Nahum Salamon.
Sewing-machines - - - - -	2143	28th Aug. 1861	William Stuart Guinness.
Machinery or apparatus for cutting the selvedges or edges of knitted or other fabrics while being stitched - - - - -	2192	2nd Sept. 1861	William Campion. Henry Johnson.
Sewing boots and shoes - - - -	2642	23rd Oct. 1861	George Archer.
Sewing-machines - - - - -	2257	10th Sept. 1861	James Smith.
Sewing-machines and apparatus connected therewith.	2423	28th Sept. 1861	William Newton Wilson.
Improvements in casings for stitching-machines, and in adapting the same for writing.	2814	9th Nov. 1861	Robert McNair.
Improvements in the manufacture of pointed trimming, and in the machinery for manufacturing pointed trimming. (*Folding tape, and stitching.*)	2833	11th Nov. 1861	Chauncy Orrin Crosby.
Improvements in sewing-machines and in apparatus connected therewith. (*Communicated by Charles Henry Wilcox.*)	2958	25th Nov. 1861	James Wilcox.
Means or apparatus for sewing - -	2970	26th Nov. 1861	William Sellers.
Machinery or apparatus for sewing or stitching -	3028	3rd Dec. 1861	John Henry Glew.
Improvements in collars for gentlemen's, ladies' and children's wear.	3189	20th Dec. 1861	Charles Edmund Wilson.
Improvements in sewing-machines - - -	3190	20th Dec. 1861	Ormrod Coffeen Evans.
Improvements in sewing-machines - -	3204	21st Dec. 1861	John Wakefield.
Certain improvements in sewing-machines -	3269	31st Dec. 1861	William Henry Bailey.
SHIP AND BOAT BUILDING, SHEATHING, REPAIRING, WORKING, LOADING AND UNLOADING; MASTS, SPARS, &c.			
The application of certain metals for the manufacture of "coaling," "swill" and similar baskets. (*For loading and unloading ships.*)	9	2nd Jan. 1861	Walter Morgan.
Manufacture of paper and pasteboard - - (*For sheathing ships.*)	28	5th Jan. 1861	Pierre Courtais. Fortuné Jammet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
Improved machinery or apparatus for picking and cleaning "oakum" and for spinning or twisting the same, for the purpose of calking ships or vessels.	172	22nd Jan. 1861	Edward Ellis.
Construction of masts and posts - - -	193	24th Jan. 1861	George Thomas Selby.
Construction of ships and other vessels for war purposes.	206	25th Jan. 1861	Charles Lungley.
Improvements in the manufacture of armour plates for gun boats and land batteries, and in machinery and furnaces used in the said manufacture.	214	26th Jan. 1861	John Arrowsmith.
Improvements in applying and fitting screw propellers, and in forming and fitting the stern parts of ships for receiving screws.	269	1st Feb. 1861	Alexander Crichton.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
An improvement or improvements in brass nails to be used in sheathing ships and for other like purposes.	289	4th Feb. 1861	John Abraham.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented.	306	6th Feb. 1861	Thomas Gee.
Construction of ships and vessels - - -	310	6th Feb. 1861	Andrew John Robertson.
Armour or metal covering for iron cased ships of war.	326	9th Feb 1861	Charles James Richardson.
Floating structures - - - - - (*See* "DOCKS.") (*Communicated by Thomas Schofield and Robert Schofield.*)	341	11th Feb. 1861	William Edward Newton.
Machinery for preparing wood for boat building and other uses.	346	11th Feb. 1861	Nathan Thomas.
Improved apparatus to be used on the decks of ships for the purpose of separating chaff, straw, sand or other foreign substances from corn or other grain when it is being deposited in their holds for shipment.	444	22nd Feb. 1861	Henry Griffiths Prossor.
An improved method of connecting and fastening together blocks, plates or slabs of wood, metal or any other material. (*For armour plates.*)	482	25th Feb. 1861	George Clark,
An improved glue or composition suitable for covering the caulking of ships and other like purposes, for uniting wood and other substances, for filling up seams, and for use as a waterproof glue or composition generally.	513	28th Feb. 1861	William John Hay.
Apparatus employed for raising and supporting ships and vessels - - - - -	520	28th Feb. 1861	William Rose. Thomas Crowder.
Arrangements and construction of armour or iron clad steam or other ships.	533	2nd March 1861	Robert Griffiths.
Furnaces used in the manufacture of armour plates for ships and other structures.	539	2nd March 1861	George Grant Sanderson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
Improvements in and in the mode or modes of applying and securing the metal plates of armour plated ships or vessels and other armour plated structures.	544	4th March 1861	John Coope Haddan.
Sheathing iron ships or vessels - - -	620	13th March 1861	George Frederick Muntz.
Improved apparatus for saving life at sea or in other waters. (*Communicated by Joseph Dauphin St. Supery.*)	629	14th March 1861	William Edward Gedge.
Protecting ships and fortifications - -	668	16th March 1861	Edward Charles Morgan.
Marine propulsion - - - - - (*Covering the propelling apparatus with a shield.*) (*Communicated by Edward Bruce Boughton Barker.*)	673	16th March 1861	George Henry Birkbeck.
Mode of applying and securing thowl pins or row-locks to boats, barges, lighters and all craft propelled by means of oars or sculls - -	694	20th March 1861	Joseph Watson. Thomas Benjamin Davison.
Improvements in or connected with ships or vessels	782	30th March 1861	William Simons.
Improvements in ports and apparatus for opening and closing the port holes of ships of war, which are also applicable to embrasures of fortifications.	837	5th April 1861	Charles Burn.
Improvements in the method of and apparatus for preventing the deterioration of grain when deposited in the holds of vessels for shipment, and also in the application of the said method and apparatus to vessels engaged in shipping grain from one port to another.	867	9th April 1861	Henry Griffiths Prossor.
Improved apparatus for drawing bolts - - (*In ship building.*) (*Communicated by Hamilton Towle.*)	875	9th April 1861	William Edward Newton.
Construction of iron vessels of war - -	1005	23rd April 1861	Joseph D'Aguilar Samuda.
Machinery for raising anchors, stopping cables, preventing cables from riding and other like purposes - - - - -	1020	24th April 1861	George Daniel Davis. Joseph Davis.
Improvements in windlasses worked by capstans, also in the means of stopping or checking the chains in connection therewith.	1043	25th April 1861	Thomas Moore.
An improved apparatus for hauling ashore ships and vessels of all sizes and description. (*And launching.*)	1077	30th April 1861	Henri Jean Théophile Labat.
An improved chain cable controller for ships' windlasses to prevent riding of cable in paying out and heaving in of same - - -	1080	1st May 1861	Thomas Alfred Kendal. Martin Dadd Rogers.
Machinery for steam vessels - - - - (*Hoisting cargo in or out.*)	1118	3rd May 1861	Edward Humphrys.
Improvements in the manufacture of nails and in apparatus used thereby. (*For naval purposes.*)	1161	8th May 1861	Jean Thomas Massiaux.
Improvements in constructing and in machinery or apparatus for propelling ships and vessels.	1175	9th May 1861	Joseph Burch.
Improvements in the manufacture of wooden keys and treenails for railways and shipping, and in machinery employed therein.	1197	11th May 1861	William Wilson.
Improvements in armour plates or bars for protecting ships and other structures, and in fixing the same.	1198	11th May 1861	Charles William Lancaster.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
An improved method of treating wood - - (*For caulking.*) (*Communicated by Edmond Louis D'Argy.*)	1199	11th May 1861	Richard Archibald Brooman.
Form and construction of ships or vessels and of arched ribs for roofs, domes and bridges -	1202	11th May 1861	George Fowler Jones. James Jones.
Construction, ventilation and propulsion of life-boats. (*Communicated by John Theodore Scholl.*)	1205	11th May 1861	William Clark.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*As a coating for ships' bottoms.*)	1269	18th May 1861	Archibald Campbell Ponton.
Improvements in plates to be used in ships and other structures for receiving armour plates or bars, and in the means of fixing such armour plates.	1275	18th May 1861	John Hughes.
Construction of ships and vessels - -	1287	20th May 1861	Andrew John Robertson.
Construction of iron ships, batteries and forts -	1289	20th May 1861	Edward Humphrys.
Armour coating for ships, fortifications and other structures.	1388	3rd June 1861	George Benjamin Vaughan Arbuckle.
Improvements applicable to railways for the purpose of facilitating the transport of carriages containing goods and passengers across arms of the sea, rivers, lakes or inland waters. (*Communicated by Monsieur Mallat de Bassilan.*)	1438	6th June 1861	William Edward Newton.
Protecting ships of war and land batteries from the effects of projectiles.	1449	7th June 1861	Edward Alfred Cowper.
An improved method of sheathing ships and vessels with copper and other metallic sheathing.	1452	7th June 1861	Charles William Lancaster.
Improvements in the adaptation of plates or shields to fixed and floating batteries and also ships, for the purpose of more effectually resisting shot or other projectiles.	1508	12th June 1861	Joseph Drew.
Metal casing or armour for the defence of ships and batteries.	1527	14th June 1861	William Cave Thomas.
Means and apparatus for facilitating the working and discharge of ordnance placed below the water level.	1541	15th June 1861	Thomas Page.
Mounting and fitting ships' guns and other ordnance.	1564	18th June 1861	James Alfred Limbert.
Construction, steering and propelling of ships and other floating bodies, and appliances adapted thereto.	1614	24th June 1861	Robert Moore.
Manufacture of armour plates for defensive purposes.	1781	15th July 1861	William Rigby.
An improved mode of building ships and floating batteries, applicable also in part to the construction of fortifications.	1814	18th July 1861	Jasper Wheeler Rogers.
Improvements in the manufacture of ships' armour plates and other heavy forgings, and in the machinery or apparatus employed therein. (*Communicated by Hyppolite Ulysse Petin and Jean Marie Gaudet.*)	1825	19th July 1861	John Henry Johnson.
Arrangements in buildings and ships with a view to the extinguishment of accidental fire therein and also the ventilation thereof.	1841	22nd July 1861	Joseph Beattie.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
Certain improvements in the construction, armament and equipment of batteries floating or otherwise, for war purposes.	1873	26th July 1861	John Frederick Bourne.
Constructing and propelling ships and vessels -	1882	27th July 1861	William Horatio Harfield.
Manufacture of sheathing-metal for ships and vessels.	1900	30th July 1861	Alexander Parkes.
Mode of fastening iron armour plates to ships' sides.	1938	5th Aug. 1861	Charles Burn.
Improvements in protecting ships of war and land batteries from the effects of projectiles.	1954	6th Aug. 1861	Edward Alfred Cowper.
Improvements in the construction of reversible seats. (*For steam vessels.*) (*Communicated by Thomas Rainey.*)	1957	6th Aug. 1861	Alfred Vincent Newton.
Improvements in ships of war and other vessels, and in the manufacture of armour and other plates of wrought iron.	1975	8th Aug. 1861	George Hinton Bovill.
Apparatus to be employed for the water conveyance and delivery of coals and other materials.	2000	12th Aug. 1861	Hugh Greaves.
Improvements in the construction of iron ships, the said improvements relating to the method of attaching or securing bulkheads to the frames or ribs thereof.	2018	14th Aug. 1861	Nathaniel Cox.
Sheathing iron ships or vessels - - -	2076	20th Aug. 1861	George Frederick Muntz.
Construction of boats, rafts and other floating structures.	2092	21st Aug. 1861	Thomas Grahame.
Improvements in the construction of armour plates and in their application to ships and batteries.	2125	26th Aug. 1861	John Lyon Field.
Manufacture of armour plates for the protection of vessels of war, floating or other batteries.	2216	5th Sept. 1861	John Napier.
Machinery for rolling iron or other metals - - (*Armour plates.*)	2218	5th Sept. 1861	John Napier.
Improvements in machinery for sawing wood - (*Ships' timbers.*)	2220	5th Sept. 1861	Thomas Greenwood.
Constructing ships or vessels - - -	2246	9th Sept. 1861	William Simons.
Construction, manufacture and mode of securing armour for the protection of ships and fortifications against projectiles.	2315	17th Sept. 1861	Francis Wrigley.
An improved method of making fire-proof buildings, ships and other constructions.	2324	18th Sept. 1861	Joseph Girton Briggs.
Improvements in vessels and machinery for unloading colliers and other vessels containing coals.	2325	18th Sept. 1861	William Cory, junior.
A new method of arming the bow of a ship of war with a shell and a beak to be fitted or unfitted at pleasure and to be used conjointly or separately.	2337	19th Sept. 1861	Charles Walter Eddy.
Improvements in the construction of and appliances to steam ships or other vessels - -	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
An improved method of applying wrought iron or steel plates to the covering and protection from the effects of shot and shell, of forts, buildings, floating vessels and other constructions.	2414	27th Sept. 1861	Francis Webb Sheilds.
An improved method of mailing ships of war -	2437	30th Sept. 1861	Wyvill James Christy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
An improved apparatus for conveying a line or other medium of communication from a ship or vessel, for the purpose of obtaining relief or assistance in case of shipwreck or for any other purpose to which the invention may apply.	2442	1st Oct. 1861	William Edsall Matthews.
Improvements in machinery and apparatus for raising ships and other vessels out of the water for the purposes of examination, cleaning or repair, some of which are applicable to the docking of vessels for the same purposes.	2467	3rd Oct. 1861	Henry Law.
An improved method of effecting communication between places otherwise inaccessible to each other, by means of kites and an apparatus connected therewith.	2494	5th Oct. 1861	George Nares.
Batteries for the purposes of war - - - -	2514	9th Oct. 1861	Robert William Sievier.
Condensers and condensing apparatus of steam-engines. (*Making apertures in the ship's side.*) (*Communicated by Francis Bowes Stevens.*)	2569	15th Oct. 1861	William Edward Newton.
Armour plated ships - - - - -	2600	18th Oct. 1861	William Sadler.
Machinery or apparatus for bending iron - - (*For ship building.*)	2631	21st Oct. 1861	John Toward.
Improvements in armour plates for ships and in securing the same to the sides of a vessel.	2633	21st Oct. 1861	John Toward.
Construction of iron vessels and iron plated ships of war.	2644	23rd Oct. 1861	Alfred Bevan.
Mode of connecting and attaching "armour" plates when applied to ships, forts, batteries and such like.	2681	26th Oct. 1861	Nathaniel Cox.
Construction of sailing ships and other vessels -	2720	30th Oct. 1861	Evan Leigh.
Mode of combining together and securing to the sides of navigable vessels and water batteries, armour plates of iron or steel.	2780	5th Nov. 1861	John Beresford Love.
Improvements in the construction of boats, barges, buoys and other like structures of metal, and in machinery employed therein.	2788	6th Nov. 1861	William Ramsell.
A vessel and gun or guns connected therewith for use in naval warfare.	2805	8th Nov. 1861	Charles William Siemens.
Improvements in protecting iron and wooden ships, caissons, dams and other wooden or iron structures from decay and from fouling by vegetable and animal matters, and in preparing the materials employed therein.	2834	12th Nov. 1861	William John Hay.
Machinery or apparatus to be used in moulding and casting twisted nails, spiral fluted nails, bolts and screws for sheathing vessels, ship building, building and other purposes.	2869	14th Nov. 1861	Montague Wigzell.
Improvements applicable to buildings in order to facilitate the extinguishing of any conflagration which may happen therein.	2916	20th Nov. 1861	William Podmore Bayliss.
Protecting ships' bottoms from fouling - -	3023	2nd Dec. 1861	William Pellew Bain.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP BUILDING, &c.—*continued.*			
Mode of preparing and applying a certain material on the hulls of iron or wooden ships, or on the surfaces of materials for building the same, also for preventing oxidation and tubercles in iron water pipes. (*Communicated by Jacob Snider, junior.*)	3024	2nd Dec. 1861	Gerard Ralston.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - - (*Engines for unloading ships.*)	3045	4th Dec. 1861	Abraham Pullan. William Lake.
An improved composition for coating metal and wood to preserve them from decay, applicable as a substitute for copper and other sheathing or other compositions now in use for coating ships' bottoms to protect them from the injurious action of water.	3054	5th Dec. 1861	Charles Davis.
Use, application and manufacture of iron or steel as armour for ships or batteries.	3068	7th Dec. 1861	George Clark.
Applying armour or thick plating to ships and other structures.	3086	9th Dec. 1861	William Mason.
Apparatus for steering and stopping vessels - -	3088	9th Dec. 1861	Sussex Newton.
Treatment, preparation and combination of metals used for sheathing ships and marine erections, also for roofing buildings and other purposes.	3111	12th Dec. 1861	Richard Searle.
Improvements in armour and in making and applying the same for protecting wood and iron ships of war and batteries.	3182	19th Dec. 1861	William Tate.
Improvements in the construction of boats for sailing or rowing - - - -	3252	30th Dec. 1861	John Peter Dormay. James Shirley Aikenhead. Thomas Johnson.
For Logs and Sounders, *see* "MEASURING PROGRESS." *For* Ships' Pumps, *see* "PUMPS." *For* Graving Docks, *see* "DOCKS." *For* Rudders, *see* "STEERING." *For* Anchoring, *see* "ANCHORS." *For* Ventilating Ships, *see* "VENTILATION."			
SHIPS' BOATS (*Lowering and Disengaging*).			
Disengaging apparatuses for boats - - -	1373	1st June 1861	George Watson.
Apparatus for disengaging boats - - -	2381	24th Sept. 1861	George Joseph Gladstone.
SHIPS' RIGGING AND SAILS; REEFING AND FURLING SAILS; LOWERING MASTS; SHIPS' RIG.			
Sails and apparatus used therewith - -	5	1st Jan. 1861	Peter Campbell. Thomas Alfred Kendal.
Improved means or apparatus for lowering or striking the masts of ships at sea with sails and courses set.	151	19th Jan. 1861	Henry Vandercruyce.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIPS' RIGGING, &c.—*continued.*			
Ships' sails - - - - - - (*Communicated by Mr. Justin Louis Hyppolyte Eugène Bonnet.*)	183	23rd Jan. 1861	William Clark.
Improvements in sails and in the rig of ships and vessels.	380	14th Feb. 1861	Henry Duncan Preston Cunningham.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Weaving textile fabrics - - - - - (*For sail cloth.*)	887	11th April 1861	David Chalmers.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making ships' thimbles.*)	1446	7th June 1861	Samuel Bennett, junior.
Construction or manufacture of sails for ships or other vessels.	1454	7th June 1861	William Augustus Sands.
An improvement or improvements in the manufacture of certain descriptions of needles. (*For sail making.*)	2385	24th Sept. 1861	James Cottrill.
An improved apparatus for reefing and furling the sails of ships and other vessels.	2492	5th Oct. 1861	John Scott Collins.
An improved mode or method of reefing fore and aft sails.	2697	28th Oct. 1861	George William Watson.
Construction of sailing ships and other vessels - (*Sails.*)	2720	30th Oct. 1861	Evan Leigh.
Certain improvements in the construction of cables or chains for telegraphic and other purposes, and for machinery connected therewith. (*Or for ships' rigging.*)	2755	2nd Nov. 1861	Thomas Walker.
Reefing and stowing the sails of vessels - -	2956	25th Nov. 1861	John Goudie.
Improvements in looms for weaving and in the manufacture of cloth therefrom. (*Sail cloth.*)	3155	16th Dec. 1861	David Chalmers.
SHIRTS, COLLARS, WRISTBANDS, NECKTIES, CRAVATS, SCARFS.			
Scarfs and cravats - - - - -	50	8th Jan. 1861	Joseph James Welch.
Men's scarfs, cravats and neck-ties - - -	267	1st Feb. 1861	Henry Curtiss.
An improved construction of neck-tie and attachment therefor.	320	8th Feb. 1861	Robert Murray McTurk.
The application of steel or iron to the manufacture of collars and wristbands to be worn as articles of clothing.	364	13th Feb. 1861	Charles Fanshawe Atkinson.
Circular knitting-frames or machines - - (*For making shirts, waistcoats, &c.*)	538	2nd March 1861	Frederick Wright.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIRTS, &c.—*continued.*			
Improvements in cravats or coverings for the throat and chest and in the fastenings for the same, which fastenings are applicable to various other parts of dress. (*Communicated by Monsieur Simon Hayen, senior.*)	586	8th March 1861	John Henry Johnson.
Improvements in and connected with the collars and wrist-bands of shirts.	812	2nd April 1861	William Alexander Lyttle.
Manufacture of trimmings - - - - (*For ruffles, frills, &c.*) (*Communicated by James Wilcox and Hector Tyndale.*)	1116	3rd May 1861	Alexander Wight.
An improvement in neck-ties - - - -	1182	9th May 1861	John Paterson.
Gentlemen's scarfs - - - - - -	1317	24th May 1861	Robert Joslin.
An improvement in clasps or buckles - - (*For neck-ties.*)	1319	24th May 1861	John Paterson.
Improvements in the manufacture of shirt fronts and in producing fabrics or materials for the same. (*Communicated by Jean Henri Albigès.*)	1357	31st May 1861	Michael Henry.
Manufacture of shirt fronts, collars and cuffs -	1808	18th July 1861	Maurice Eugène Guaymard.
Comforters, neck-ties, cravats and the like articles of garment for the neck and chest. (*Communicated by Messrs. Samuel Weil and Raphael Weil, Brothers.*)	1888	29th July 1861	Frederick Tolhausen.
Manufacture of shirt collars and fronts, wristbands or cuffs, neck-ties or other similar articles of wearing apparel.	2140	28th Aug. 1861	Arthur Granger.
Shirts and chemises - - - - (*Communicated by Madame Sénécal, formerly Marguerite Edile Guébin,*)	2168	30th Aug. 1861	William Clark.
Manufacture of collars and wristbands - -	2263	12th Sept. 1861	John Albert Dauncey.
Shirts - - - - - - (*Communicated by André François Emile Robert.*)	2311	16th Sept. 1861	Richard Archibald Brooman.
Manufacture of printed shirt fronts - -	2672	25th Oct. 1861	Simon Oppenheim.
Cravats and their mode of attachment - -	2673	25th Oct. 1861	Lazare Aron.
Manufacture of collars, shirt fronts, cuffs, hats, bonnets, vests and other articles of wearing-apparel.	2923	21st Nov. 1861	James Harrow Jeffs.
Collars for gentlemen's, ladies' and children's wear	3020	30th Nov. 1861	Edward Price.
An improved method of securing scarfs and similar articles to the neck.	3071	7th Dec. 1861	Daniel May.
Improvements in collars for gentlemen's, ladies' and children's wear.	3189	20th Dec. 1861	Charles Edmund Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHOT, SHELL, BULLETS AND OTHER PROJECTILES.			
Improvements in cannon and mortars and in projectiles for the same.	98	12th Jan. 1861	Giovanni Franci.
Improvements in and connected with projectiles to be used with ordnance, rifles and other fire-arms.	147	19th Jan. 1861	William A. Lyttle.
Rifles and their projectiles - - - -	161	21st Jan. 1861	Lieutenant John Scott.
Ordnance and projectiles - - - -	216	26th Jan. 1861	Henry Bessemer.
Construction of ordnance and of projectiles to be used in ordnance.	321	8th Feb. 1861	William Montgomery Storm.
Projectiles for ordnance and fire-arms - - (*Communicated by Silas T. Burbanks.*)	359	12th Feb. 1861	William Edward Newton.
Certain improvements in projectiles applicable to the use of ordnance and small arms - -	369	13th Feb. 1861	Charles Augustus Lawson. John Bowen Barnes. John Loach.
Machinery or apparatus for casting bullets - -	436	21st Feb. 1861	William Watson. Alexander Watson.
Machinery for making bullets - - - - (*Communicated by Richard Gornall and William John Hooper.*)	552	4th March 1861	William Edward Newton.
Projectiles for rifled ordnance - - -	585	8th March 1861	Bashley Britten
Rifled or smooth barrelled arms discharging projectiles forcibly propelled or not and loaded by the breech.	589	8th March 1861	Paul Doury.
Breech-loading fire-arms and their projectiles -	646	15th March 1861	John Marson.
Structure and construction of ordnance and other fire-arms, and of projectiles to be used with them.	651	15th March 1861	Charles John Burnett.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For shot flasks.*)	853	6th April 1861	Thomas Goulston Ghislin.
Ordnance and projectiles - - - -	923	15th April 1861	Alphonse Sax.
A new and useful packing for projectiles for guns or ordnance, especially those which are rifled or grooved on their bores.	971	19th April 1861	John P. Schenkl.
Improvements in the construction of breech-loading ordnance and in the carriages and projectiles used for the same.	1011	23rd April 1861	Robert Warry.
Projectiles and ordnance - - - -	1069	27th April 1861	Henry Bessemer.
Projectiles - - - - - - -	1189	10th May 1861	Stephen Barrett.
An improved explosive shell - - - -	1194	11th May 1861	Herman James Sillem.
Improvements in projectiles and in fire-arms for discharging the same.	1229	14th May 1861	Robert William Woollcombe.
Cannon and projectiles to be used therewith - - (*Partly communicated by Joseph Zöckling.*)	1303	22nd May 1861	Giovanni Battista Naglost.
Improvements in breech-loading arms and in projectiles for breech-loading arms.	1415	5th June 1861	François Jules Manceaux.
Improvements in batteries and in breech-loading ordnance and projectiles for the same. (*Communicated by Mr. Mathieu Castay and Baron Henri de Rivière.*)	1550	17th June 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHOT, &c.—*continued.*			
Rifles and projectiles	2093	21st Aug. 1861	Westley Richards.
Improvements in the manufacture of projectiles and of cartridges	2128	26th Aug. 1861	John Coope Haddan. Carlo Minasi.
Projectiles	2260	11th Sept. 1861	William Lynall Thomas.
Batteries for the purposes of war (*And projectiles.*)	2514	9th Oct. 1861	Robert William Sievier.
Manufacture of shot	2577	16th Oct. 1861	William Biddell.
Gun and ammunition carriages	2581	17th Oct. 1861	Reuben Hayes.
Rifled ordnance and projectiles	2736	1st Nov. 1861	Lynall Thomas.
A vessel and gun or guns connected therewith for use in naval warfare.	2805	8th Nov. 1861	Charles William Siemens.
Means of firing or igniting explosive projectiles	2852	13th Nov. 1861	Sir William George Armstrong.
Cases for holding and supplying caps to the nipples of rifles and other fire-arms.	2992	27th Nov. 1861	John Henry Soller.
Breech-loading ordnance and the projectiles to be used therewith which may also be applied to small arms.	3062	6th Dec. 1861	Frederick Vetterlin.
Improvements in projectiles and ordnance and in apparatus to be used therewith.	3072	7th Dec. 1861	William Nelson Hutchinson.
Improvements in bomb shells and similar projectiles.	3245	27th Dec. 1861	James McIntyre.
SHOW CASES AND BOXES, SHOW BOARDS OR TABLETS, SHOP-FRONTS, STREET PLATES, NAME PLATES, LETTERS.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*For tablets.*) (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Certain improvements in the means of or apparatus for holding or filing receipts, invoices and other papers or tickets, and which said means are also applicable for holding other articles such as fancy or other wares required to be held	370	13th Feb. 1861	Joseph Starling Blake. George Calley Lingham. Joseph Nicklin.
Irrigating or self-supplying water brushes, brooms and sponges. (*For cleaning shop fronts.*) (*Communicated by Mr. J. Lemoine.*)	733	23rd March 1861	George John Baptist Loyer.
An improved stand for exhibiting drapery or other goods for sale.	811	2nd April 1861	Egbert Horlick.
Combining metals and alloys of metal for the manufacture of coins, checks, vouchers, trade marks and other useful articles, and for ornamental purposes	836	5th April 1861	Daniel Stone. Charles Comer, junior.

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SHOW CASES, &c.—*continued.*			
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and amyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For tablets.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improved show or window boards or tablets to be used for advertising and other purposes.	1119	4th May 1861	Joseph Johnson.
Show cases and boxes used in counting-houses and by shopkeepers for containing different kinds of wares and papers or samples.	1227	14th May 1861	Frederick Bull.
Shop fronts - - - - - -	1440	7th June 1861	William Riddle. Henry Godfrey Coombs.
Manufacture of letters, designs and other articles of mica variously coloured or metallized. (*And signs, armorial bearings, &c.*) (*Communicated by Messrs. Thomas Lamie-Murray and Holthausen, Brothers.*)	1549	17th June 1861	William Clark.
Construction of iron windows or casements - (*For shop fronts.*)	1620	25th June 1861	Louis Pierre.
An improvement or improvements in the manufacture of wood and other types or substitutes therefor, and also in the matrix or apparatus for producing the same.	1652	28th June 1861	John Whitfield Harland.
A new or improved manufacture of street plates, name plates and other plates or surfaces having inscriptions or devices thereon.	1749	11th July 1861	John Clutton Blair Salt.
Improvements in the method of soldering together two or more printing type letters to facilitate the work of the compositor, and in the arrangement of type cases for the same.	1765	13th July 1861	Louis George.
An improvement in show cases - - -	1771	15th July 1861	George Treble, junior.
Applications of mica previously coloured or metallized for letters and signs, decorating churches, rooms, shops, frames and other ornamental and useful purposes. (*Communicated by Mr. Frederic Holthausen.*)	2280	13th Sept. 1861	Thomas Lamie Murray.
Improvements in the mounting of tablets, show bills, prints, photographs and drawings, and of producing embossed ornamentation applicable to various purposes.	2434	30th Sept. 1861	Benjamin George George.
Improvements in the manufacture of metal pens and holders, in tools employed therein, and in cards for carrying the same.	2472	3rd Oct. 1861	Joseph Wood.
Preparing and fixing street and other inscriptions or lettering on metallic plates.	2478	4th Oct. 1861	Adolphe David, junior.
Obtaining or producing and applying embossed or raised and engraved or indented metal or other surfaces - - - - - - (*Name plates, letters, &c.*)	2521	9th Oct. 1861	Henry Bentinck Coathupe. Frank Higgins Waltham.
Improvements in porte-robes or dress suspenders, and also in apparatus for the suspension of curtains, draperies and other articles - - (*In shop windows.*)	2561	14th Oct. 1861	Benjamin Taylor. Charles Edkins.

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SHOW CASES, &c.—*continued.*			
Construction of revolving and moveable surfaces applicable to the exhibition of advertisements, show cases, transparencies and other like matters at fixed stations - - - - -	2667	25th Oct. 1861	Edward Samuel Tucker. Frederick Erskine Manners.
Apparatus for goffering or embossing stuffs in high relief. (*Casting wedge like type.*)	2804	8th Nov. 1861	Henry Montucci, Ph.Dr.
An improvement or improvements in attaching name plates or labels to umbrellas, parasols, walking sticks and whips.	3001	28th Nov. 1861	Samuel Alfred Carpenter.
Frames used for displaying trade show cards, pictures or other similar devices.	3050	5th Dec. 1861	John Wilson.
SIFTING, SORTING, SEPARATING.			
Improved apparatus to be used on the decks of ships for the purpose of separating chaff, straw, sand or other foreign substances from corn or other grain when it is being deposited in their holds for shipment.	444	22nd Feb. 1861	Henry Griffiths Prosser.
An improved construction of bran duster - - (*Communicated by George Clark, Peter Elting, George Marsh and Alfred Marsh.*)	832	4th April 1861	Alfred Vincent Newton.
An improved portable cinder sifting apparatus -	968	19th April 1861	John Ridley.
Improvements in machinery or apparatus for reducing vegetable substances to a finely divided state, part of which improvements may also be employed for sifting or separating the fine from the coarse particles of other substances.	1204	11th May 1861	William Henry Tooth.
Machinery or apparatus for making bricks - -	1437	6th June 1861	John Platt. William Richardson.
An improvement or improvements in the manufacture of riddles or sieves.	1573	19th June 1861	Charles Edward Butler.
Improved means or apparatus for drying, sifting and cleansing grain and other agricultural produce. (*Communicated by Antoine Auguste Dubard-Dutarbre.*)	1589	20th June 1861	William Edward Gedge.
A new method of producing sand - - -	2010	13th Aug. 1861	John Lancaster.
Means for sizing corks or separating the larger from the smaller sized corks.	2079	20th Aug. 1861	James Ellis.
An improved process and apparatus for concentrating ores or tailings or separating pulverized mineral substances of different kinds or qualities from each other. (*Communicated by Henry Eberhard Roeder.*)	2142	28th Aug. 1861	Benjamin Browne.
Thrashing-machines - - - - (*Communicated by Jean Florent Dussol.*)	2160	30th Aug. 1861	William Edward Gedge.
Machinery or apparatus for preparing grain for brewers. (*Separating, &c.*)	2710	29th Oct. 1861	Richard Gibbon.
Cinder sifters - - - - -	3095	10th Dec. 1861	George Charles Lock.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIFTING, &c.—*continued.*			
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes. (*Separating waste.*)	3118	12th Dec. 1861	Augustus Tonnar.
An improved method of and apparatus for separating solid from liquid substances.	3217	24th Dec. 1861	John Rosindell.
Improvements in cinder sifters and ash receptacles applicable to domestic fire grates.	3230	26th Dec. 1861	Thomas Standing.
SIGNALS, ALARMS, COMMUNICATING-APPARATUS; PNEUMATIC TELEGRAPHS.			
Improved apparatus for communicating between the passengers and guard and guard and engine-driver on railways.	66	10th Jan. 1861	James Conry.
Improved means of signalling or communicating with the guard or engine-driver in railway trains.	75	11th Jan. 1861	William Henry Muntz.
Fog-signals for railways - - - - -	99	14th Jan. 1861	Crane Brush.
A novel mode of advertizing, signalling, giving notices or other communications.	113	15th Jan. 1861	Charles Bristow Walker.
Improved means of communication on railways for the prevention of accidents.	146	19th Jan. 1861	William Crozier.
Signalling between the different carriages of railway trains and their engines.	220	28th Jan. 1861	James Badcock.
An improved means of communication between the guard and the engine-driver of a railway train.	231	29th Jan. 1861	Edward Wyburd Furrell.
Signals for communicating between the passengers of railway trains and the engine-driver and guards.	235	29th Jan. 1861	John Henry Ashford.
An improved high and low water indicator for steam and other boilers.	261	31st Jan. 1861	Sylvester Wiggin Warren.
Method of and apparatus for communicating between the guards or the passengers and the engine-drivers of railway trains.	264	1st Feb. 1861	Edward Wyburd Furrell.
Apparatus for signalling in railway trains.	300	5th Feb. 1861	Captain Henry Dixon.
Improvements applicable to the government or regulation and registration of excessive speed in hoisting apparatus and railway carriages.	388	15th Feb. 1861	Marcus Brown-Westhead.
An improved alarm whistle applicable to steam-boilers and indicating the level of the water therein.	428	21st Feb. 1861	Jules Dutilleul.
Application of electricity for communicating by signals with carriages in motion on railways.	448	22nd Feb. 1861	Albert Horwood.
Improvements in the means or apparatus for taking or catching of fish, parts of which improvements are applicable to propelling and to arresting the progress of ships and boats, and to the forming of communication therefrom to the shore.	492	26th Feb. 1861	William Henry James.
An improved apparatus for indicating the names of railway stations to passengers.	524	1st March 1861	Henri Réda de St. Martin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Apparatus for communicating sound signals -	571	6th March 1861	André Désiré Martin. Prosper Verdat du Trembley.
Apparatus for preventing the explosion of steam-boilers. (*Communicated by Charles Voelckner.*)	592	9th March 1861	Henry Bernoulli Barlow.
Means for indicating and representing various meteorological or atmospherical phenomena or influences. (*See* "MAPS.")	625	14th March 1861	Arthur John Joyce.
An improvement or improvements in machinery or apparatus for signalling on railway trains.	647	15th March 1861	Thomas Griffiths.
Apparatus for transmitting signals on railway trains	658	15th March 1861	Henry Alfred Ward.
Whistles or water indicators for steam-boilers -	659	15th March 1861	Joseph Penn.
An improved method of enabling the guard or other person to communicate with the engine-driver, or vice versa, in railway carriages or railway trains or similar conveyances, by means of electricity.	712	21st March 1861	Charles Taylor, junior.
Steam-engines and boilers - - - - -	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in electro-magnetic telegraphs and in apparatus connected therewith.	858	8th April 1861	Henry Wilde.
Improvements in signalling and in apparatus connected therewith adapted to communicating from the land to vessels at sea and also applicable to other purposes. (*For railway trains.*) (*Communicated by Thomas T. Vernon Smith.*)	1031	25th April 1861	Delabere Barker,
Improved apparatus for regulating the water level in steam-boilers. (*And giving signals.*) (*Communicated by George Washington Rains.*)	1044	25th April 1861	Alfred Vincent Newton.
Construction of targets - - - - -	1091	1st May 1861	Alexander McNeile.
An improved thermometrical fire-alarum and extinguisher.	1173	9th May 1861	George Carter.
Apparatus for sounding bells on lighthouses, floating lights, buoys and like floating bodies.	1220	13th May 1861	Charles Oliver.
Apparatus for communicating signals applicable to railway trains and vehicles on land and to vessels on water - - - - - - -	1351	30th May 1861	Thomas Young Hall. Joseph Stockley.
Instruments for measuring, indicating and regulating the pressure or flow of fluids. (*And for giving signals.*)	1366	31st May 1861	Paul Cameron.
Improvements in the means of and apparatus for indicating the course to be steered in ships at sea, and in galvanic batteries to be used in some cases therewith.	1378	1st June 1861	Frederic Newton Gisborne.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*In conjunction with signals.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
Railway signals - - - - - -	1431	6th June 1861	Henry Turner. Thomas Yates.
An improved electro-thermometrical alarum -	1443	7th June 1861	Hyppolite Auguste Balsac.
Means or apparatus employed in signalling on railways.	1479	10th June 1861	Charles Frederick Whitworth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Machinery for sounding fog bells and other bells -	1678	2nd July 1861	James Potts.
Improvements in engines for obtaining motive-power by the elastic force of steam and air combined, parts of which improvements may be employed for sounding steam whistles. (*Communicated by Robert Rogers.*)	1702	4th July 1861	William Edward Newton.
Machinery or apparatus for working railway signals	1788	16th July 1861	John Blinkhorn.
Improvements in fusee signals and in means or apparatus for applying or placing them and fog signals on the rails of railways from the van of a train in motion.	1890	29th July 1861	Reuben Riley.
Improvements in operating upon railway signals and in indicating their position by means of electricity - - - - - -	2069	20th Aug. 1861	Samuel Whitaker. Ralph Augustine Jones.
An improved signal - - - - - (*For railways, &c.*) (*Communicated by Robert Harvey.*)	2150	29th Aug. 1861	John Love.
Stopping or retarding railway and other carriages and trains, locomotive and stationary engines and machinery, together with apparatus employed therein, which apparatus is applicable to the raising and lowering of weights and other purposes for which power is required.	2163	30th Aug. 1861	James Harris.
Improved apparatus for succouring persons interred before life is extinct. (*Communicated by Ramond Malleville.*)	2164	30th Aug. 1861	Hippolyte Lecaudey.
Railway, ship and other signals - - -	2174	31st Aug. 1861	Charles Pemberton.
Signal apparatus applicable for the prevention of railway train collisions. (*Communicated by Mr. Antoine Grivel, junior.*)	2185	2nd Sept. 1861	William Clark.
Improvements in apparatus for signalling on railways by means of electricity. (*Communicated by Eugene Vincenzi.*)	2234	6th Sept. 1861	Michael Henry.
Apparatus by which an engine or train is made to give an alarm or signal at any required place on arriving at or passing any given point on the railway - - - - - - - - -	2241	7th Sept. 1861	Joseph Holland. George Okell.
Improved apparatus for enabling the guards and drivers of railway trains to communicate with each other.	2266	12th Sept. 1861	Archibald Turner.
Self-acting signals for railways - - -	2290	14th Sept. 1861	James Lea.
Improved automatic electric signals to prevent collisions on railroads and railways.	2292	14th Sept. 1861	Frederic Barnett.
Means or apparatus for self-acting signals in tunnels and elsewhere on railways.	2338	19th Sept. 1861	Edward Clark.
A self-acting alarum which can be fixed on tenders, guards' compartments or other parts of railway trains, for preventing collisions.	2432	30th Sept. 1861	Edward Funnell.
Improvements in magnetic and electric telegraph apparatus which are also applicable to other purposes.	2464	3rd Oct. 1861	William Thomas Henley.
An improved method of signalling the passage of trains upon railways.	2471	3rd Oct. 1861	Camille Mauvernay.
Signalling for rifle practice - - -	2501	7th Oct. 1861	Wedderspoon Keiller.
Electric telegraph apparatus - - -	2545	12th Oct. 1861	John Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION; BURNING AND CONDENSING SMOKE; SAVING FUEL.			
Apparatus for ventilating - - - - (*And prevention of smoke.*)	6	2nd Jan. 1861	William Cooke.
Improvements in the form and construction of chimney tops or appliances for surmounting chimneys, in order to regulate the up currents and obviate the down drafts - - -	207	26th Jan. 1861	James Durrant. Noel Alleyne Harris.
Chimney tops - - - - - -	227	28th Jan. 1861	John Gurney Mason.
An improved construction of kiln for baking bricks, tiles or other similar articles - - - (*Economising fuel.*)	241	30th Jan. 1861	Alexander Courtois. Jerome Ernest de Soulange.
Furnaces - - - - - - (*Communicated by Jean Gérard Charles Tenbrinck.*)	415	19th Feb. 1861	Michael Henry.
Furnaces - - - - - - -	425	21st Feb. 1861	John Louch.
Fire-places - - - - - - -	479	25th Feb. 1861	William Dray.
Improvements in the construction of furnaces for the prevention or consumption of smoke.	489	26th Feb. 1861	Edward Ettrick.
Improvements in the building of boilers and boiler flues for the consumption of smoke.	535	2nd March 1861	William Hendry.
An improved apparatus for drawing off smoke and gases.	540	2nd March 1861	Jacques Bernard Chaussenot.
Machines worked by concentrated power - - (*Saving fuel.*)	770	28th March 1861	François Chevillard.
Steam-boilers - - - - - - - (*Economising fuel.*)	772	28th March 1861	James Bremner.
Improvements in the construction of furnaces for heating steam-boilers, bakers' ovens and brewers' coppers, which improvements are applicable also to furnaces made use of for various other purposes. (*Saving fuel.*)	779	28th March 1861	William Stratford.
Means or apparatus for obtaining superheated or surcharged steam, and for increasing the draft through the flues of locomotive and other boilers. (*Economising fuel.*) (*Communicated by James Martin.*)	807	1st April 1861	William Brookes.
Combustion of fuel for generating steam and for other purposes.	870	9th April 1861	William Henry Phillips.
Syphons for carrying off the condensed water from steam pipes. (*Economising fuel.*)	941	17th April 1861	Joseph Vickerman.
Improvements in the construction of furnaces for the better combustion of fuel and the prevention of smoke.	960	18th April 1861	William Benson.
Certain improvements in apparatus to be employed in connection with Cornish and other similar boilers, for the purpose of consuming the smoke.	972	19th April 1861	John Jobson.
Improvements in safety lamps and in domestic grates, stoves and furnaces.	1002	23rd April 1861	Thomas Young Hall.
A smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes.	1121	4th May 1861	George Rydill.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Improvements in engines and implements for ploughing and cultivating land, parts of which improvements are also applicable to other purposes. (*Economising fuel.*)	1125	4th May 1861	William Collett Homersham.
A mode of promoting a more perfect combustion of fuel in furnaces and the manner of effecting the same.	1133	6th May 1861	Joseph Capron Tiffany.
Furnaces - - - - - - -	1253	16th May 1861	Daniel Kinnear Clark.
Improvements in locomotive steam-engines and in buffer and draw springs for the same, and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Consuming and destroying smoke as emitted from engine or other chimneys, and from all other flues from which smoke is emitted - -	1277	18th May 1861	Robert King. Kenneth Robson.
Boilers and furnaces - - - - - (*Economising fuel.*)	1297	21st May 1861	Thomas Sykes. Benjamin Clifford Sykes, M.D. James William Crossley.
Improvements in the construction and internal arrangement of furnaces, and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence -	1344	29th May 1861	Thomas Hale. Arthur Wall.
Improvements for economising fuel in evaporating and concentrating, chiefly applicable to the manufacture of chemicals, and in the apparatus connected therewith.	1462	8th June 1861	Joseph Roman.
Marine and land steam-boilers - - -	1463	8th June 1861	Patrick O'Hanlon.
A cone preventing smoke and extinguishing fires in chimneys.	1471	10th June 1861	Auguste Louis César De Montagu.
Improvements in marine steam-boilers, parts of which improvements are applicable to other steam-boilers, and in apparatus connected therewith.	1472	10th June 1861	Robert Armstrong.
Improved apparatus for supplying fuel to furnaces, preventing or consuming smoke and economizing fuel.	1475	10th June 1861	William Weller.
An improved smoke-consuming grate - -	1506	12th June 1861	Louis Jean Jacques Pètre.
Improvements applicable to steam-boilers, furnaces and flues.	1529	14th June 1861	James Leeming.
Improvements in furnaces, boilers and condensers of steam-engines, part of such improvements being applicable to other purposes.	1572	19th June 1861	John Louch.
Smoke-consuming furnaces - - - (*Communicated by Antoine Léonide Lacroix.*)	1588	20th June 1861	Charles Stevens.
Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
An improved wind guard for curing smoky chimneys	1745	11th July 1861	William Cooke.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.

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Chimney tops - - - - - -	227	28th Jan. 1861	John Gurney Mason.
An improved construction of kiln for baking bricks, tiles or other similar articles - - - (*Economising fuel.*)	241	30th Jan. 1861	Alexander Courtois. Jerome Ernest de Soulange.
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A cone preventing smoke and extinguishing fires in chimneys.	1471	10th June 1861	Auguste Louis César De Montagu.
Improvements in marine steam-boilers, parts of which improvements are applicable to other steam-boilers, and in apparatus connected therewith.	1472	10th June 1861	Robert Armstrong.
Improved apparatus for supplying fuel to furnaces, preventing or consuming smoke and economizing fuel.	1475	10th June 1861	William Weller.
An improved smoke-consuming grate - -	1506	12th June 1861	Louis Jean Jacques Pètre.
Improvements applicable to steam-boilers, furnaces and flues.	1529	14th June 1861	James Leeming.
Improvements in furnaces, boilers and condensers of steam-engines, part of such improvements being applicable to other purposes.	1572	19th June 1861	John Louch.
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Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
An improved wind guard for curing smoky chimneys	1745	11th July 1861	William Cooke.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Steam-engines, boilers, furnaces and apparatus applicable thereto - - - - (*Saving fuel.*)	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Improvements in the drying of bricks and other articles manufactured of fire clay or common clay, and in the construction of drying rooms for such purpose. (*Saving fuel.*)	1860	24th July 1861	Adolf Julius Diedrich Seitz.
Smoke-consuming furnaces - - -	1915	1st Aug. 1861	John Cook.
Glass furnaces - - - - -	1928	3rd Aug. 1861	Charles Schinz.
Marine and other steam-boilers with reference to economy of fuel.	1932	3rd Aug. 1861	Patrick O'Hanlon.
An improved smoke-consuming apparatus - -	1984	9th Aug. 1861	Léonard Vassiviere.
Stoves - - - - - - -	2027	14th Aug. 1861	John Billing.
Preparation, application and manufacture of peat - (*Fuel to prevent smoke.*)	2058	19th Aug. 1861	William Henry Smith.
Smoke-consuming grates - - - -	2087	21st Aug. 1861	Auguste Jules Hennart.
An improved apparatus for collecting the gases which escape from furnaces. (*Communicated by Mr. Emil Langen.*)	2176	31st Aug. 1861	Edward Joseph Hughes.
Furnaces - - - - - - -	2188	2nd Sept. 1861	John Watson.
Improvements in smoke-consuming furnaces - (*Communicated by Bernard Palazot.*)	2222	6th Sept. 1861	Marc Antoine François Mennons.
An improved smoke-consuming stove - -	2419	27th Sept. 1861	Joseph Waller.
An improved chimney top, cap or cowl for the prevention of the descent of sooty exhalations, curing of smoky chimneys, and ventilation of apartments.	2518	9th Oct. 1861	James Walker.
Apparatus to be applied to chimneys or flues for improving the draft therein and for preventing down drafts or the descent of smoke into apartments.	2590	17th Oct. 1861	Robert Aytoun.
Method of and apparatus for preventing the injurious effects occasioned by smoke, sulphur and the deleterious gases which escape from stacks, chimneys, calcining houses, chemical and other furnaces - - - - - -	2750	1st Nov. 1861	William Bickford Smith. William Bennetts.
Improvements in collecting and utilizing smoke, gases and such like products of combustion, rendering the same available for heating steam-boilers and other purposes where heat is required, which improvements are also applicable to the desulphurization of coal in making coke.	2962	25th Nov. 1861	John Halford.
An improved Cornish or other steam boiler with smoke consumer and condenser, being also applicable for ventilation.	2982	27th Nov. 1861	George Rydill.
Improvements applicable to stoves or open fireplaces for utilizing more of the heat therefrom than heretofore, also for economizing fuel and igniting same.	3004	28th Nov. 1861	Wilhelm Adolph Von Kanig.
A wind guard for curing smoky chimneys - -	3017	30th Nov. 1861	William Cooke.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SOAP.			
Machinery or apparatus for cutting or shaping soap or other similar materials.	418	20th Feb. 1861	Charles Smith.
Manufacture of soap - - - - -	678	18th March 1861	Constantine Nicolaus Kottula.
Manufacture of soap - - - - -	717	22nd March 1861	Fidèle Joseph Wagon.
Manufacture of soap - - - - -	935	16th April 1861	Robert Hodgson. Enoch Holden.
Consuming and destroying smoke as emitted from engine or other chimneys and from all other flues from which smoke is emitted - - - - (*Or smells from soap-boiling.*)	1277	18th May 1861	Robert King. Kenneth Robson.
Manufacture of metallic and earthy silicates or siliceous compounds of the same from the metallic and earthy bases or their salts and soluble alkaline silicates, the formation of alkaline acetates or caustic alkalies, and application of the same. (*For soap making.*)	1772	15th July 1861	Thomas Cobley.
Certain new compositions to be used in the manufacture of soap.	1836	22nd July 1861	Constantine Nicolaus Kottula.
Improvements in the manufacture of certain kinds of soap and in the construction of apparatus to be used in such manufacture.	2059	19th Aug. 1861	William Gossage.
An improved soap - - - - - - (*Communicated by Patrick Michael Belton.*)	2082	21st Aug. 1861	William Mason.
Manufacture of soap - - - - - -	2240	7th Sept. 1861	George Norris.
Manufacturing oxygen gas and obtaining certain other products. (*Hydrate of soda for soap boilers.*)	2607	19th Oct. 1861	James Webster.
Manufacture of soap - - - - -	2702	29th Oct. 1861	John Watt. Thomas Snaith Haviside.
An improved soap - - - - -	2783	5th Nov. 1861	Henry Orth.
Manufacture of soap - - - - - - (*Communicated by Campbell Morfit.*)	2863	13th Nov. 1861	George Tomlinson Bousfield.
Apparatus for elevating boiling soap and for dividing the same into bars when congealed.	2921	21st Nov. 1861	Thomas Cowburn.
An improvement in the manufacture of soap -	2974	26th Nov. 1861	David Ker.
Manufacture of soap and the preparation of materials for the purpose. (*Communicated by Louis Marie Théophile Riot.*)	2994	27th Nov. 1861	Michael Henry.
SOWING SEEDS AND DISTRIBUTING MANURE; TREATING GROWING CROPS.			
An improved machine for distributing manure on lands - - - - - - -	72	11th Jan. 1861	Henry Thomas Hooper. William Gerrans.
Improving the action or motion of the Kent brush drill at present used in agriculture.	475	25th Feb. 1861	Charles Sallows.
An improved agricultural implement for cultivating land and for sowing seed. (*Partly communicated by Guiden Huntington.*)	528	1st March 1861	Levi Lemon Sovereign.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SOWING SEEDS, &c.—*continued.*			
Cultivators, ploughs and apparatus used therewith when cultivating and tilling land.	1219	13th May 1861	William Smith.
Apparatus for sowing seed - - - -	1332	27th May 1861	William Bosworth Holbech.
Machinery for drilling and hoeing land - -	1735	9th July 1861	Alfred Priest. William Woolnough, junior.
Improvements in mechanism or apparatus for ploughing and cultivating the land by steam and other power.	2264	12th Sept. 1861	William Steevens.
Preparing and treating gutta-percha and india-rubber. (*Making pipes for distributing manure.*)	2800	7th Nov. 1861	William Albert Shepard.
Improvements in the method of applying manure to growing crops and also in the machinery or apparatus to be employed for such purpose -	3102	11th Dec. 1861	Henry Tanner. William Proctor.
SPINDLES; SPINDLES AND FLYERS.			
Spinning or twisting fibrous materials - -	29	5th Jan. 1861	John Watson. Charles Frederick Halle.
Machinery or apparatus for roving, slubbing or spinning cotton and other fibrous materials -	384	15th Feb. 1861	George James Wainwright. Charles Timothy Bradbury. John Lawton.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning.	394	16th Feb. 1861	Thomas Settle.
Machinery or apparatus for preparing and spinning fibrous materials.	596	11th March 1861	James Charles Fisher.
Certain improvements in machinery or apparatus to be employed in the preparation of cotton and other fibrous materials for spinning, called slubbing-frames and roving-frames.	574	7th March 1861	William Wild.
Certain improvements in apparatus for spinning and doubling cotton and other fibrous materials.	725	22nd March 1861	Thomas Thomas.
Machinery or apparatus for slubbing, roving, spinning and doubling cotton and other fibrous materials.	846	5th April 1861	James Dunn.
Certain improvements in machinery for preparing cotton and other fibrous substances - -	850	6th April 1861	Richard Wallwork. Thomas Sumner.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning - - (*Presser flyer.*)	879	10th April 1861	James Ivers. James Pollitt.
Certain improvements in machinery or apparatus employed in spinning cotton, wool, silk and other fibrous substances - - -	944	17th April 1861	Benjamin Brown. Richard Hacking.
Certain improvements in machinery or apparatus to be employed in preparing cotton and other fibrous materials for spinning, called "roving-frames" and "slubbing-frames" - -	953	18th April 1861	Benjamin Brown. Richard Hacking.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINDLES, &c.—*continued.*			
Machinery or apparatus for spinning wool, cotton, silk or other fibrous substances - - -	1063	27th April 1861	Jabez Bunting Farrar. Joshua Farrar.
Improvements applicable to Ryder's forging machine, which render it better adapted for forging mule spindles and articles of similar form.	1195	11th May 1861	John Wareing.
Flyers employed in machinery for preparing and spinning fibrous substances - - - -	1315	24th May 1861	Barnard Collingham. Mark Mason.
Flyers and spindles of machinery for preparing, spinning and doubling fibrous substances.	1477	10th June 1861	Mark Mason.
Machinery or apparatus for spinning, doubling and winding cotton and other fibrous materials -	1568	18th June 1861	Thomas Webb. James Craig.
Certain parts of machinery or apparatus used in preparing and spinning cotton or other fibrous materials.	2022	14th Aug. 1861	George James Wainwright.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning.	2046	17th Aug. 1861	Thomas Settle.
Spindles and flyers used in machinery for spinning and twisting fibrous substances - - -	2134	27th Aug. 1861	Joseph Smith. William Smith.
Certain improvements in machinery or apparatus to be employed in the preparation of cotton and other fibrous materials for spinning, called slubbing frames and roving-frames.	2232	6th Sept. 1861	William Wild.
Throstle and doubling frames for spinning and doubling fibrous materials - - - - -	2542	11th Oct. 1861	Thomas Butterworth Collingwood. Abraham Butterworth.
Spindles and flyers of machinery employed for spinning and twisting flax, hemp, jute, cotton, silk, wool and other fibrous substances.	2645	23rd Oct. 1861	Samuel Young.
Improvements in treating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering spindles.*)	2664	24th Oct. 1861	James Chesterman.
Improvements in machinery or apparatus for preparing, spinning or doubling cotton, silk and other fibrous materials, parts of which improvements are applicable for winding and other purposes. (*Lubricating spindles.*)	2777	5th Nov. 1861	Richard Fethney.
Throstle and doubling frames for spinning and doubling fibrous materials - - - -	2847	13th Nov. 1861	Thomas Butterworth Collingwood. Abraham Butterworth.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Application of pinions to spindles.*) (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Machinery or apparatus for spinning and doubling cotton and other fibrous materials - -	3136	13th Dec. 1861	John Hetherington. Thomas Webb. James Craig.

Subject-matter of Patent	Number of Patent.	Date.	Name of Patentee.
SPINNING AND PREPARING FOR SPINNING.			
I.—Opening, Ginning, Breaking and Cleaning Fibrous Materials.			
Machinery or apparatus for preparing cotton or other fibrous materials to be spun - - - (*"Opener" and "blowing machine."*)	124	16th Jan. 1861	Edwin Whittaker. Jeremiah Clare.
Improved machinery or apparatus for picking and cleaning "oakum" and for spinning or twisting the same for the purpose of calking ships or vessels.	172	22nd Jan. 1861	Edward Ellis.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used - - - -	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
Machinery for treating flax, hemp, New Zealand flax, Spanish or China grass and other vegetable fibres.	511	28th Feb. 1861	Edward Brasier.
Improvements in the actual mode of scouring wools before and after the combing of the same	588	8th March 1861	Edward Comte. Edward Prevost.
Woven fabrics - - - - - - (*Mixing jute with silk, &c.*)	594	9th March 1861	Michael Meyers.
Machinery for cleansing or dressing bass, flax and other vegetable fibres, applicable also to the thrashing of corn and other grain.	654	15th March 1861	Augustus Smith.
Machinery or apparatus for treating hemp, flax, jute and other fibrous substances requiring a similar treatment.	672	16th March 1861	James Robb.
Machinery for cleansing cotton - - - -	768	27th March 1861	John Macmillan Dunlop.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun - - - (*Opening, &c.*)	819	3rd April 1861	William Crighton. Frederick William Crighton.
Machinery for cleansing cotton - - -	899	11th April 1861	John Macmillan Dunlop.
Machinery or apparatus for cleaning cotton and other fibrous substances. (*Communicated by Isaac Hayden.*)	956	18th April 1861	Alfred Vincent Newton.
Improvements in treating flax, hemp, rhea, China-grass, New Zealand flax, plantain and other vegetable fibres, and in the means or apparatus employed therein. (*Communicated by George Rutter.*)	1016	24th April 1861	Ebenezer Woodcock.
Obtaining fibrous materials and paper pulp from various trees, shrubs and plants.	1216	13th May 1861	Antoine Constant Vautier.
Cleaning flax, separating the fibre from the straw, called a flax scutching machine.	1359	31st May 1861	Hugh Boyd Mackay.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1439	6th June 1861	John Platt. William Richardson.
Improved beating apparatus for picking and cleaning substances used in making or manufacturing woven or textile fabrics, more especially cashmeres, alpacas, and other fine materials, preparing the same for scouring. (*Communicated by Michel Girrés.*)	1515	13th June 1861	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Certain improvements in machinery for preparing cotton and other fibrous materials.	1518	13th June 1861	John Knowles.
Improvements in the machine used for cleaning cotton and commonly called churka or roller gin.	1623	25th June 1861	Frederick Warren.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	3rd July 1861	John Petrie, junior.
Extracting the fibres from genista scoparia (broom) and their application to manufacturing paper and fabrics, and also treating the washing waters so as to obtain dyeing products therefrom.	1783	15th July 1861	Emile Georges Fermier de la Provotais.
An improved process and improved machinery for obtaining fibres from the stalks or leaves of fibre yielding plants. (*Communicated by James Mullory and Gelston Sanford.*)	1802	17th July 1861	Alfred Vincent Newton.
An improved method of preparing flax from old materials for spinning and other purposes.	1844	23rd July 1861	Thomas Gray.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	1861	24th July 1861	John Platt. William Richardson.
Improved machinery or apparatus for disintegrating, crushing or drawing out vegetable fibres. (*See* "PAPER MAKING.")	1894	29th July 1861	Edmond Hamborough Joynson.
Machinery or apparatus for opening, cleaning and preparing cotton and other fibrous materials -	2011	13th Aug. 1861	Samuel Andrew. Stephen Hornby.
Certain improvements in machinery or apparatus for preparing cotton and other fibrous substances for spinning.	2047	17th Aug. 1861	Ellis Sutton.
Treating flax, hemp and other analogous substances which yield fibres for the purpose of manufacturing from them fibres adapted to be spun into yarn and thread.	2094	21st Aug. 1861	James Kane.
An improved method of treating the hop plant to obtain a material resembling wool. (*Communicated by Barthélemy Picard.*)	2110	23rd Aug. 1861	Richard Archibald Brooman.
Improved apparatus for oiling wool - -	2116	24th Aug. 1861	William Clissold.
Machinery for dressing hemp, flax, manilla and other like long fibrous material.	2141	28th Aug. 1861	James Ronald.
Improvements in cleansing cotton seeds and in machinery used for such process.	2179	31st Aug. 1861	John Macmillan Dunlop.
Machinery or apparatus for producing a strong blast or current of air - - - - (*For cotton-gins, cotton-openers, &c.*)	2195	3rd Sept. 1861	Edmund Suckow. Edward Habel.
Apparatus for dividing and softening vegetable fibres. (*Communicated by Felix Sorin.*)	2225	6th Sept. 1861	William Spence.
Machinery or apparatus for softening or treating jute, hemp, flax or other similar fibrous substances.	2245	9th Sept. 1861	George Malcolm.
Machinery or apparatus for opening and cleaning cotton and other fibrous materials - -	2331	18th Sept. 1861	Edmund Suckow. Edward Habel.
Machinery for opening and cleaning cotton and other fibrous materials.	2475	4th Oct. 1861	Peter Knowles.
Cylinders or drums and beaters for machines for scutching and preparing flax and other fibres.	2490	5th Oct. 1861	William Rowan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
The application of a new material in the manufacture of paper, cardboard and yarns - -	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Obtaining and treating fibrous substances - -	2628	21st Oct. 1861	Ferrar Fenton.
Machinery for preparing cotton to be spun, known as openers, scutchers and carding-engines -	2758	2nd Nov. 1861	Benjamin Brown. Richard Hacking.
Machinery or apparatus for scutching and refining flax, hemp, jute and other fibrous substances.	2809	8th Nov. 1861	John Byrne.
Improvements in processes for treating, preparing and combing certain fibrous materials, and in the machinery or apparatus employed for these purposes.	2826	11th Nov. 1861	William Tongue.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun.	2867	14th Nov. 1861	George Bridge.
Machinery and apparatus for burring, carding and combing wool and other fibrous substances.	2980	27th Nov. 1861	Francis Alton Calvert.
Improvements in the preparation and treatment of vegetable fibres the better to adapt them for combining, working up and dyeing with different fibres such as silk, wool, cotton and others, and in apparatus used in such treatment or preparation.	3046	4th Dec. 1861	Charles Samuel Henry Hartog.
Manufacture of textile materials - - - (*Communicated by Alois Chevalier Auer de Welsbach.*)	3153	16th Dec. 1861	George Davies.
Machinery or apparatus commonly called "gins" for cleaning cotton from seeds - - -	3165	17th Dec. 1861	John Platt. William Richardson.
Cotton gins - - - - - (*Communicated by Hiram Wilson Brown.*)	3181	19th Dec. 1861	Theodore Bourne.
Certain improvements in machinery for preparing cotton and other fibrous substances.	3249	28th Dec. 1861	Edward Lord.
II.—Carding, Combing and Heckling Fibrous Materials; Making Cards.			
Machinery for grinding rollers and cylinders covered with card teeth.	15	3rd Jan. 1861	William Heywood.
Machinery for heckling flax, and other fibrous materials.	19	4th Jan. 1861	George Lowry.
Machines or engines employed for carding cotton, silk, flax, wool and other fibrous substances.	35	5th Jan. 1861	James Conlong.
Separating foreign matters from the droppings from carding-machines and for returning the residue thereunto - - - -	54	9th Jan. 1861	James Fitton. F. E. Fullerton.
Machinery for combing wool or other fibrous substances - - - - -	100	14th Jan. 1861	John Baldwin, junior. Charles Wood. John Crossley.
An improved stripper for carding-engines - -	180	23rd Jan. 1861	William Brown.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	331	9th Feb. 1861	James Higgins. Thomas Schofield Whitworth.
Machinery for preparing hemp and similar fibrous materials. (*Heckling.*) (*Communicated by Joseph Compton Todd and Philip Rafferty.*)	342	11th Feb. 1861	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery for preparing and combing wool, silk, cotton, flax or other fibrous substances.	395	16th Feb. 1861	Nicholas Nussey.
Machinery or apparatus for preparing fibrous materials to be combed or spun - -	464	23rd Feb. 1861	Auguste Duriez, fils. Sidney Emsley.
An improvement in the manufacture of flannel - (*Mixing cotton with wool in the carding.*)	495	26th Feb. 1861	John Thomson Pagan. Thomas Benjamin Willans.
Certain improvements in machinery for carding cotton and other fibrous substances.	500	27th Feb. 1861	William Whalley.
Machinery or apparatus for preparing and spinning of cotton, wool and other fibrous substances -	510	28th Feb. 1861	Robert Hoyle. Henry Spencer. Thomas Holland.
Machinery or apparatus for preparing cotton or other fibrous materials to be spun - -	556	5th March 1861	Edwin Whittaker. Jeremiah Clare.
Carding-engines - - - - -	653	15th March 1861	Ely Green. John Green.
Certain improvements in machinery for carding cotton and other fibrous materials.	731	23rd March 1861	Joseph Cedric Rivett.
Machinery or apparatus for combing wool and other fibres.	808	1st April 1861	John Greenwood.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun - - (*Carding, &c.*)	819	3rd April 1861	William Crighton. Frederick William Crighton.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	872	9th April 1861	James Higgins. Thomas Schofield Whitworth.
Engines for carding cotton and other fibrous materials.	888	11th April 1861	William McConnel.
Machinery or apparatus for preparing fibrous materials to be spun - - - -	903	12th April 1861	Joseph Ward. Rhodes Greenwood.
Certain improvements in machinery for carding cotton and other fibrous materials.	906	13th April 1861	Joseph Cedric Rivett.
Improvements in treating flax, hemp, rhea, China-grass, New Zealand flax, plantain and other vegetable fibres, and in the means or apparatus employed therein. (*Communicated by George Rutter.*)	1016	24th April 1861	Ebenezer Woodcock.
An improvement or improvements in the process of carding wool, cotton, silk or other fibrous materials, and in machinery or apparatus applicable for that purpose.	1078	30th April 1861	George Hulme.
Carding engines for carding wool, cotton, silk or other fibrous substances.	1096	2nd May 1861	William Scholes.
Machinery for scutching flax and other fibrous substances, applicable also for reducing flax, hemp and other fibrous materials into tow.	1123	4th May 1861	William Rowan.
Certain improvements in machinery for combing wool, cotton and other fibres.	1159	8th May 1861	Thomas Eloe, junior.
Wire card covering for carding tow, flax or other fibrous substances.	1226	14th May 1861	George Savile Goodall.
Undercovers of carding engines - - -	1305	23rd May 1861	Levi Lumb. William Heap Butterworth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Improvements in machinery for grinding the cards of carding-engines, and in machinery for making the same.	1306	23rd May 1861	Charles Nuttall.
Machinery or apparatus for preparing cotton or other fibrous materials to be spun - -	1374	1st June 1861	Jacob Taylor. Robert King.
Method of and apparatus for separating foreign matters from the droppings from carding-machines, and for returning the residue thereunto. (*Communicated by James Fitton.*)	1422	6th June 1861	James Wright.
Treatment of wool - - - - -	1466	8th June 1861	John Hutchinson.
Combining or mixing various colours of wool or other fibrous substances in the preparation of yarns for textile fabrics.	1476	10th June 1861	John Oldroyd.
Certain improvements in carding-engines for carding cotton and other fibrous substances.	1556	18th June 1861	Ferdinand Ziffer.
Certain improvements in machines for planing, boring and turning - - - - - (*Turning rollers for carding engines.*)	1584	20th June 1861	James Fletcher. John William Fuller.
Improvements in the pointing of steel or other wire for teeth of cards, and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.
Certain improvements in carding-engines for carding cotton and other fibrous substances - -	1810	18th July 1861	Peter Williams. Thomas Parkinson.
Certain improvements in machinery for carding cotton and other fibrous materials.	1852	24th July 1861	Frederick Mills.
Machinery to be used in carding cotton and other textile substances. (*Communicated by Amand Wibaux.*)	1918	2nd Aug. 1861	James Wright.
Machines for preparing to be spun cotton and other fibrous materials.	2016	14th Aug. 1861	William Robertson.
Machinery for hackling flax and other fibrous substances.	2039	15th Aug. 1861	James Combe.
Carding-engines - - - - - -	2052	17th Aug. 1861	Robert Caunce.
Treating animal fibre recovered from rags composed of mixed animal and vegetable fibre - (*Carding, &c.*)	2165	30th Aug. 1861	Charles Worms. James Warburton.
Machinery for carding and combing wool and other filamentous substances. (*Communicated by Celestin Martin.*)	2189	2nd Sept. 1861	Emile Alcan.
Machinery or apparatus for combing wool and other fibrous substances - - -	2317	17th Sept. 1861	John Eastwood. John Barnett Joyce.
Machinery for combing cotton and other fibrous material. (*Communicated by Cullen Whipple and Rufus Stafford.*)	2358	20th Sept. 1861	George Tomlinson Bousfield.
Machinery for combing, heckling and dressing fibrous materials.	2367	21st Sept. 1861	William Tongue.
Machinery for preparing and spinning cotton and other fibrous substances.	2486	4th Oct. 1861	Joseph Tweedale.
Construction of carding-engines used in the preparation of cotton and other fibrous substances for spinning.	2587	17th Oct. 1861	John Tattersall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Carding-engines for the carding of cotton, silk, wool and other fibrous substances.	2612	19th Oct. 1861	James Cooper.
Machinery or apparatus for combing cotton or other fibrous substances.	2622	21st Oct. 1861	John Smith.
A new machine for combing all filamentous materials	2650	23rd Oct. 1861	Augustin Morel.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	2742	1st Nov. 1861	James Higgins. Thomas Schofield Whitworth.
Method of and apparatus for separating foreign matters from the droppings from carding-machines, and for returning the residue thereunto. (*Communicated by James Fitton and Francis Edward Fullerton.*)	2756	2nd Nov. 1861	James Wright.
Machinery for preparing cotton to be spun, known as openers, scutchers and carding-engines -	2758	2nd Nov. 1861	Benjamin Brown. Richard Hacking.
Certain improvements in machinery for combing, preparing and spinning cotton and other fibrous substances - - - - - -	2803	8th Nov. 1861	Benjamin Dobson. James Clough.
Improvements in processes for treating, preparing and combing certain fibrous materials, and in the machinery or apparatus employed for these purposes.	2826	11th Nov. 1861	William Tongue.
Machinery or apparatus for preparing cotton, cotton waste or other fibrous materials to be spun - - - - - - -	2848	13th Nov. 1861	John Hodgkinson. Daniel Greenhalgh.
Machinery for combing wool and other fibrous substances.	2927	21st Nov. 1861	Edward Brooks.
Certain improvements in machinery for carding and hackling flax, tow and other fibrous substances.	2954	25th Nov. 1861	George Lowry.
Machinery and apparatus for burring, carding and combing wool and other fibrous substances.	2980	27th Nov. 1861	Francis Alton Calvert.
Machines for heckling and scutching flax and other vegetable fibres.	2995	27th Nov. 1861	William Rowan.
Certain improvements in "carding-engines" -	3162	17th Dec. 1861	Robert Shaw.
Improvements in the manufacture of driving straps or bands, the backs of wire cards and cop tubes.	3224	24th Dec. 1861	John Bland Wood.
Certain improvements in carding-engines - -	3238	27th Dec. 1861	William Hawksworth.
Certain improvements in machinery for preparing cotton and other fibrous substances.	3249	28th Dec. 1861	Edward Lord.
III.—Roving, Slubbing, Spinning, Twisting, Doubling and Throwing Fibrous Materials.			
An improved apparatus for facilitating the placing of cop tubes on the spindles of spinning and doubling machines.	1	1st Jan. 1861	Edward Tomlinson.
Spinning or twisting fibrous materials - -	29	5th Jan. 1861	John Watson. Charles Frederick Halle.
Construction of covered rollers used in machinery for preparing and spinning fibrous materials -	33	5th Jan. 1861	John Sugden. John Midgley. William Clapham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Certain improvements in machinery for preparing, spinning and doubling cotton and other fibrous substances - - - - - -	51	9th Jan. 1861	Edward Lord. Robert Whitaker.
Improvements in spinning and doubling wool, cotton, silk, flax and other fibrous substances, and in machinery or apparatus employed for the same.	131	17th Jan. 1861	Joseph Henry Craven.
Improved machinery or apparatus for picking and cleaning "oakum" and for spinning or twisting the same for the purpose of calking ships or vessels.	172	22nd Jan. 1861	Edward Ellis.
Machinery or apparatus for printing yarns or threads, part of which machinery or apparatus is applicable to the twisting of fibrous materials.	189	24th Jan. 1861	Henry Henderson.
Treatment of flax, hemp and other fibres in various stages of preparation and manufacture.	286	2nd Feb. 1861	James Garth Marshall.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	331	9th Feb. 1861	James Higgins. Thomas Schofield Whitworth.
Improvements in the manufacture or spinning of yarns or threads from hemp, flax, cotton or other fibrous materials, and in the apparatus employed therein.	336	11th Feb. 1861	Henry Louch.
Machinery for spinning and doubling cotton and other fibrous substances.	363	13th Feb. 1861	Ellis Butterworth.
Machinery or apparatus for roving, slubbing or spinning cotton and other fibrous materials -	384	15th Feb. 1861	George James Wainwright. Charles Timothy Bradbury. John Lawton.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning.	394	16th Feb. 1861	Thomas Settle.
Machinery or apparatus for preparing and spinning of cotton, wool and other fibrous substances - - - - - - -	510	28th Feb. 1861	Robert Hoyle. Henry Spencer. Thomas Holland.
Certain improvements in "cop tubes" and in machinery or apparatus employed in the manufacture thereof - - - - - -	512	28th Feb. 1861	Joseph Bayley. John Quarmby. Edward Burns.
Machinery for doubling and double twisting yarn -	553	4th March 1861	William Kay. Isaac Kay.
Certain improvements in machinery or apparatus to be employed in the preparation of cotton and other fibrous materials for spinning, called slubbing-frames and roving-frames.	574	7th March 1861	William Wild.
Manufacture of yarns or threads - - - - (*See* "CEMENTED FABRICS.") (*Communicated by Antoine Louis Warnery.*)	581	7th March 1861	William Edward Newton.
Machinery or apparatus for preparing and spinning fibrous materials.	596	11th March 1861	James Charles Fisher.
Machinery for producing rovings or slubbings of wool or other fibres - - - - -	618	13th March 1861	William Walker. Dan Walker.
An improved regulator for looms - - - - (*For spinning cotton.*) (*Communicated by Jean Jacques Moeckel.*)	645	15th March 1861	Charles Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &C.—*continued.*			
Machinery for drawing and spinning wool and other fibrous substances. (*Communicated by John Henry Bloodgood.*)	680	18th March 1861	William Edward Newton.
Certain improvements in apparatus for spinning and doubling cotton and other fibrous materials.	725	22nd March 1861	Thomas Thomas.
Machinery or apparatus for twining or spinning and doubling cotton or other yarns and threads.	744	25th March 1861	John Grant.
Certain improvements in self-acting mules for spinning cotton and other fibrous materials -	745	25th March 1861	John Brown. Robert Gregson.
An improved method of doubling silk threads together with machinery for effecting the same. (*Communicated by Messrs. Beaux, Mahistre and Rousset.*)	829	4th April 1861	Richard Archibald Brooman.
Machinery or apparatus for slubbing, roving, spinning and doubling cotton and other fibrous materials.	846	5th April 1861	James Dunn.
Machinery for preparing and spinning cotton and other fibrous substances.	849	6th April 1861	William Slater.
Certain improvements in machinery for preparing cotton and other fibrous substances - -	850	6th April 1861	Richard Wallwork. Thomas Sumner.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	872	9th April 1861	James Higgins. Thomas Schofield Whitworth.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning - -	879	10th April 1861	James Ivers. James Pollitt.
Machinery or apparatus for preparing fibrous materials to be spun - - - -	903	12th April 1861	Joseph Ward. Rhodes Greenwood.
Certain improvements in machinery or apparatus for spinning cotton, wool, flax, silk and other fibrous substances - - - -	912	13th April 1861	Henry Maden. James Wheater.
Machinery for spinning and doubling cotton and other fibrous materials.	919	15th April 1861	Asa Bradbury.
Certain improvements in machinery or apparatus employed in spinning cotton, wool, silk and other fibrous substances - - - -	944	17th April 1861	Benjamin Brown. Richard Hacking.
Certain improvements in machinery or apparatus to be employed in preparing cotton and other fibrous materials for spinning, called "roving-frames and "slubbing frames" - -	953	18th April 1861	Benjamin Brown. Richard Hacking.
Machinery or apparatus for spinning and doubling cotton, wool, flax and other fibrous materials -	991	22nd April 1861	Henry Moore. Abraham Higgin.
Certain improvements in machinery for spinning cotton and other fibrous materials - -	1001	23rd April 1861	Richard Shaw. William Snodgrass.
Machinery for spinning fibrous materials - -	1017	24th April 1861	Frederick Joseph Bramwell.
Self-acting mules - - - - -	1021	24th April 1861	William Lord. Joseph Hilton.
Machinery or apparatus for preparing and spinning cotton, wool, flax, silk and other fibrous materials.	1037	25th April 1861	Thomas Garner.
Machinery or apparatus for spinning wool, cotton, silk or other fibrous substances - - -	1063	27th April 1861	Jabez Bunting Farrar. Joshua Farrar.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Certain improvements in machinery for preparing, spinning and doubling cotton and other fibrous substances. (*Weighting top-rollers.*)	1097	2nd May 1861	William Hoyle.
Certain improvements in machinery or apparatus for doubling yarn or thread.	1111	3rd May 1861	Thomas Bradshaw.
An improved thread for weaving and other uses - (*Communicated by Charles Lewandoski.*)	1124	4th May 1861	Richard Archibald Brooman.
Improvements applicable to Ryder's forging machine, which render it better adapted for forging mule spindles and articles of similar form.	1195	11th May 1861	John Wareing.
Spinning and treating yarns - - -	1241	15th May 1861	Samuel Cunliffe Lister. James Warburton.
Construction of rollers for doubling frames and other machines.	1281	20th May 1861	George Buckley.
Improvements in cop tubes and partial tubes, and in apparatus for holding them on to the spindles of mules for spinning and doubling, also improvements in the construction of the skewers for shuttles and winding machines.	1282	20th May 1861	John Sidebottom.
Improvements in the manufacture of fluted rollers for preparing and spinning fibrous materials, and in machinery for the purpose.	1298	22nd May 1861	Joseph Bleasdale.
Flyers employed in machinery for preparing and spinning fibrous substances - - -	1315	24th May 1861	Barnard Collingham. Mark Mason.
Machines for spinning and doubling - -	1324	27th May 1861	William Kay. Isaac Kay.
Top rollers for spinning and drawing frames -	1383	1st June 1861	Thomas Ambler.
Improvements relating to cop tubes - -	1427	6th June 1861	Thomas Hamilton. James Hamilton.
Treating, spinning and doubling yarns - - -	1434	6th June 1861	Samuel Cunliffe Lister James Warburton.
Manufacture of drawing and delivering rollers used in preparing and spinning fibrous materials.	1456	8th June 1861	William Robertson.
Flyers and spindles of machinery for preparing, spinning and doubling fibrous substances.	1477	10th June 1861	Mark Mason.
Machinery or apparatus for preparing and spinning cotton or other fibrous materials.	1505	12th June 1861	Hugh Mason.
Certain improvements in machinery for preparing cotton and other fibrous materials.	1518	13th June 1861	John Knowles.
Certain improvements in self-acting mules for spinning cotton and other fibrous substances.	1535	15th June 1861	Robert Walker Pitfield.
Machinery or apparatus for slubbing, roving, spinning, twisting and doubling cotton and other fibrous substances.	1563	18th June 1861	James Dunn.
Machinery or apparatus for spinning, doubling and winding cotton and other fibrous materials -	1568	18th June 1861	Thomas Webb. James Craig.
Improved means or apparatus for doubling and twisting the threads of any textile matter with any material susceptible of being carded or combed. (*Communicated by Joseph Seraphin Mansion.*)	1618	25th June 1861	William Edward Gedge.
Machinery for preparing and spinning flax or other fibrous matters.	1626	25th June 1861	Augustus Sacré.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery or apparatus for spinning and doubling cotton and other fibrous materials	1637	26th June 1861	James Higgins. Thomas Schofield Whitworth.
Spinning and doubling machinery	1680	2nd July 1861	Abner Hill.
Certain improvements in machinery for spinning (*Communicated by Messrs. Jules Harmel, Leon Harmel and Ernest Harmel.*)	1684	3rd July 1861	Henry Bernoulli Barlow.
Certain machines used in preparing to be spun and in spinning cotton, wool and other fibrous substances	1712	5th July 1861	Robert Lakin. John Wain.
Spinning-frames for spinning wool, cotton, silk or flax and other fibrous material. (*Communicated by William and Theodor Schmidt.*)	1720	6th July 1861	Hermann Schutt.
Self-acting mules for spinning cotton and other fibrous materials	1764	13th July 1861	James Pickering. Henry Pickering. Nathan Pickering.
Machinery for spinning and doubling cotton and other fibrous materials	1832	20th July 1861	John Platt. John Buckley.
Machinery or apparatus for spinning cotton or other fibrous material.	1859	24th July 1861	Richard Threlfall.
Certain improvements in machinery or apparatus employed in spinning cotton, wool, silk and other fibrous substances	1865	25th July 1861	Benjamin Brown. Richard Hacking.
An improved cop tube and cover for rollers used in spinning, and in apparatus for putting the tubes on the spindles.	1950	6th Aug. 1861	Rudolph Wappenstein.
Improvements in machinery for doubling and twisting yarns and threads, and for manufacturing wire rope. (*Communicated by Mr. Antoine Ratignez.*)	1967	7th Aug. 1861	Louis William Viollier.
A new kind of yarn being a combination of refuse and waste matters of fibrous materials and the said fibrous materials, and the cloth woven therefrom	1968	8th Aug. 1861	John Eastwood. Thomas Charles Eastwood.
Mules for spinning	1989	9th Aug. 1861	James Gray. Thomas Kershaw. Benjamin Crowther. Alfred Dean.
Improved machinery for spinning and doubling fibrous materials.	2015	13th Aug. 1861	Benjamin Cooper.
Certain parts of machinery or apparatus used in preparing and spinning cotton or other fibrous materials.	2022	14th Aug. 1861	George James Wainwright.
Machinery and apparatus for spinning and doubling fibrous materials (*Cork washers, &c.*)	2030	15th Aug. 1861	Joseph Cedric Rivett. John Vickers. Samuel Hayes.
A certain improvement in machinery or apparatus employed in preparing cotton, wool, flax and other fibrous substances for spinning.	2046	17th Aug. 1861	Thomas Settle.
Self-acting mules for spinning cotton and other fibrous materials	2122	26th Aug. 1861	Henry Nelson. James Carr. George Harrison.
Spindles and flyers used in machinery for spinning and twisting fibrous substances	2134	27th Aug. 1861	Joseph Smith. William Smith.
Improved machinery for twisting and laying flax, hemp and other fibrous materials. (*See* "ROPES.")	2193	3rd Sept. 1861	Daniel Ward.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery for preparing and spinning cotton and other fibrous materials - - -	2204	5th Sept. 1861	James Kirkman Bailey. Thomas Harrison. William Briggs. Robert Parker.
Certain improvements in machinery or apparatus to be employed in the preparation of cotton and other fibrous materials for spinning, called slubbing-frames and roving-frames.	2232	6th Sept. 1861	William Wild.
An improved method of producing mixed-colored woollen and other threads. (*Communicated by Stanislas Vigoureux.*)	2253	9th Sept. 1861	Richard Archibald Brooman.
Certain improvements in or applicable to machines for spinning and doubling - - -	2291	14th Sept. 1861	James King. John Sutcliffe.
Machinery for preparing cotton and other fibrous substances.	2334	19th Sept. 1861	James Clough.
Certain improvements in "Mules" for spinning cotton and other fibrous substances - -	2402	26th Sept. 1861	James Openshaw. William Entwistle. James Lord.
Machinery for preparing and spinning cotton and other fibrous substances.	2486	4th Oct. 1861	Joseph Tweedale.
Certain improvements in or applicable to self-acting mules for spinning - - -	2528	10th Oct. 1861	Thomas Peter Bennett. James Collier.
Throstle and doubling frames for spinning and doubling fibrous materials - - -	2542	11th Oct. 1861	Thomas Butterworth Collingwood. Abraham Butterworth.
Certain improvements in machinery for preparing, spinning and doubling cotton and other fibrous materials.	2547	12th Oct. 1861	Robert Edge.
Machinery or apparatus for punching washers for throstles and other similar purposes.	2552	12th Oct. 1861	Henry Nelson.
Self-acting mules for spinning and doubling -	2624	21st Oct. 1861	Edward Oldfield.
Spindles and flyers of machinery employed for spinning and twisting flax, hemp, jute, cotton, silk, wool and other fibrous substances.	2645	23rd Oct. 1861	Samuel Young.
Improvements in heating steel and iron, and in hardening and tempering steel, and in apparatuses employed therein. (*Tempering spindles, &c.*)	2664	24th Oct. 1861	James Chesterman.
Certain improvements in mules for spinning and doubling - - - - -	2684	26th Oct. 1861	William Robertson. John Muir Hetherington.
Certain improvements in machinery for making partial tubes for the spindles of spinning and and other machines.	2685	26th Oct. 1861	John Sidebottom.
Machinery or apparatus for preparing cotton and other fibrous materials for spinning - -	2742	1st Nov. 1861	James Higgins. Thomas Schofield Whitworth.
Production of cotton, worsted, or composite yarns -	2747	1st Nov. 1861	Richard Rountree Priestley.
Machinery or apparatus for doubling or twisting yarns of worsted or other fibrous substances.	2757	2nd Nov. 1861	John French.
Improvements in machinery or apparatus for preparing, spinning or doubling cotton, silk and other fibrous materials, parts of which improvements are applicable for winding and other purposes.	2777	5th Nov. 1861	Richard Fethney.
Cop tubes - - - - - - -	2791	7th Nov. 1861	Simon Cockett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Certain improvements in machinery for combing, preparing, and spinning cotton and other fibrous substances	2803	8th Nov. 1861	Benjamin Dobson. James Clough.
Throstle and doubling frames for spinning and doubling fibrous materials	2847	13th Nov. 1861	Thomas Butterworth Collingwood. Abraham Butterworth.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Application of pinions to spindles.*) (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Machinery used for spinning hemp, flax, manilla, wool, and like fibrous material, and for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	2955	25th Nov. 1861	James Ronald.
Machinery or apparatus for spinning cotton or other fibrous materials.	3037	4th Dec. 1861	Thomas Stead. William Higham.
Machinery or apparatus for spinning and doubling cotton and other fibrous substances	3091	10th Dec. 1861	Henry Spencer.
Machinery or apparatus for spinning and doubling cotton and other fibrous materials	3136	13th Dec. 1861	John Hetherington. Thomas Webb. James Craig.
Improvements in apparatus used for collecting and removing the waste and dirt which occurs in the process of spinning cotton and other fibrous materials.	3183	19th Dec. 1861	Eli Stott.
Improvements in machinery or apparatus for spinning fibrous materials	3276	31st Dec. 1861	Alexander Edward. James Edward.
SPONGE (*Substitute for*).			
A woollen article as a substitute for a sponge	1460	8th June 1861	John Mason.
SPRINGS.			
A spring window supporter (*Communicated by John Rogers.*)	60	10th Jan. 1861	Joseph Alvin Munn.
Manufacture of india-rubber applicable to springs valves for machinery and other purposes	62	10th Jan. 1861	Stephen Moulton.
Carriage springs	176	22nd Jan. 1861	Arthur East Holmes.
Improved spring apparatus applicable to bedsteads and other articles to which springs may be applied.	202	25th Jan. 1861	Samuel Needham.
Improved spring hinges (*Communicated by Mr. Charles François Alexis Arnaud.*)	255	30th Jan. 1861	William Clark.
Spectacles and hand frames	389	16th Feb. 1861	John Braham.
An improved method of applying springs to railway and other carriages.	442	22nd Feb. 1861	James Ball Mannix.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPRINGS, &c.—*continued.*			
Coating or covering metallic springs or bands for crinolines and other articles of dress.	461	23rd Feb. 1861	John William Wyatt.
Springs	477	25th Feb. 1861	William Frederick Henson.
India-rubber springs for railway and other uses	613	13th March 1861	George Spencer.
Railway carriage buffer and other springs	670	16th March 1861	William Frederick Henson.
A new improved spring	883	10th April 1861	Perry G. Gardiner.
Springs	1014	24th April 1861	Alfred Leighton.
Construction of springs	1036	25th April 1861	Perry Green Gardiner.
Improvements in machinery or apparatus for warping cotton, worsted and other similar materials, and in expanding combs used in connection therewith, and also in springs used in the manufacture of the said combs, which springs are applicable to other purposes	1134	6th May 1861	Thomas Blackburn. Mark Knowles.
Umbrellas and parasols (*Runner springs.*)	1153	7th May 1861	James Willis.
Looms for weaving (*Taper spiral springs.*)	1158	8th May 1861	Thomas Blackburn. Mark Knowles.
Springs for railroad cars and for carriages, and for many other purposes for which springs are used or required.	1245	16th May 1861	Alexander T. Watson.
Improvements in locomotive steam-engines and in buffer and draw-springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Double action box spring hinges for swing doors	1455	8th June 1861	John Whines.
Spiral springs (*Communicated by Adolphe Loncq.*)	1585	20th June 1861	Charles Stevens.
Door springs (*Communicated by John Oliver Blythe.*)	1644	27th June 1861	Henry Coulter.
Certain improvements in power-looms for weaving	2231	6th Sept. 1861	John Brown.
Improvements in railway breaks and in apparatus for actuating the same.	2357	20th Sept. 1861	William Godley Creamer.
A new improved spring (*Communicated by Perry Green Gardiner.*)	2534	10th Oct. 1861	Benjamin Browne.
Manufacture or construction of springs for railway or other vehicles.	2668	25th Oct. 1861	William Wharton.
An improved spring and fastening applicable to gates, doors and other useful purposes.	2770	4th Nov. 1861	William Thomas Weston.
Manufacture of elastic fabrics (*Springs for doors, &c.*)	2779	5th Nov. 1861	Edward Bowra.
An improved spring door shutter with a moveable lever.	2853	13th Nov. 1861	Louis Rolland.
Improvements in machinery for attaching the soles of boots and shoes to the upper leathers. (*India-rubber spring.*) (*Communicated by Simon Smith Bucklin.*)	3202	20th Dec. 1861	George Tomlinson Bousfield.
A new method and machinery for covering springs used for petticoats and other articles. (*Communicated by Antoine Rameau.*)	3266	31st Dec. 1861	Frederick Tolhausen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STABLE FLOORS.			
Constructing stable floors	276	1st Feb. 1861	Thomas Edward Knightley.
Constructing and draining floors suitable for stables and other places.	566	5th March 1861	Andrew Gibson Corbett.
STAMPS AND DAMPERS; TICKETS; STAMPING, MARKING AND SEALING; SEALING-WAX.			
An improved apparatus applicable for marking linen and for other printing and stamping purposes.	328	9th Feb. 1861	Griffith Jarrett.
Improvements in envelopes and letters and in the mode of securing them, also in the seals or seal impressions or wafers used for such purpose.	409	19th Feb. 1861	William Pidding.
Construction of self-inking stamps for postal and other purposes.	465	23rd Feb. 1861	François Edouard Massey.
Apparatus for stamping or marking letters or similar articles.	532	2nd March 1861	Archibald Kennedy Irvine.
Machinery for engraving, stamping or embossing cylinders and other surfaces used in printing and embossing fabrics and other materials	587	8th March 1861	Robert Leake, junior. William Shields.
Improvements in securing or fastening envelopes, letters or other sealed packets, and in applying ornaments to the same.	677	18th March 1861	Charles Iles.
Manufacture of sealing-wax	754	25th March 1861	George Frederick Morrell.
Stamping-presses (*Communicated by Adolphe Charles Guillemot.*)	817	2nd April 1861	William Clark.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For card racks, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Railway and other passengers' tickets	1184	10th May 1861	William Parsons. John Dowling. John Dowling, junior.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*Pasteboard for tickets.*)	1371	1st June 1861	Thomas Coradine.
Certain improvements in the manufacture of pawnbrokers' duplicate tickets and in the apparatus connected therewith.	1809	18th July 1861	John Tillotson.
Manufacture of enamelled cards	1820	19th July 1861	Richard Charles Newbery.
Improvements in stamping, endorsing and embossing machines	1951	6th Aug. 1861	John Turner. Robert Buchanan Dunnett.
Improvements in the manufacture of envelopes and other covers, and in part applicable to the gumming of sheets of paper.	2121	26th Aug. 1861	John Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STAMPS, &c.—*continued.*			
Dampers for stamping purposes - - - (*Communicated by Joseph Isidore Morel and Jules Lirondelle.*)	2137	27th Aug. 1861	John Henry Johnson.
Certain tickets or passes for railway and other purposes.	2513	8th Oct. 1861	John Edwin Grisdale.
Improvements in the manufacture of paper and card paper or card board, with the object of preventing forgery and alterations in cheques and other documents, and which improvements are also applicable to the manufacture of playing-cards and railway and other tickets - - (*Communicated by Mr. Joseph Prosper Olier.*)	3185	19th Dec. 1861	Alphonse Treuille. François Xavier Traxler.
STARCH, SIZE, GUM, GLUE AND GELATINE.			
Improvements in the process of manufacturing a glutinous or viscous substance to be used in dressing textile fabrics and for other such like processes, or in brewing and distilling, and also in the apparatus to be used for the same and similar purposes.	358	12th Feb. 1861	William Maltby.
An improved glue or composition suitable for covering the caulking of ships and other like purposes, for uniting wood and other substances, for filling up seams, and for use as a waterproof glue or composition generally.	513	28th Feb. 1861	William John Hay.
Method of obtaining ammoniacal salts and other valuable products from liquors or substances containing ammonia, and for utilizing the residuum - - - - - - (*Obtaining gelatinous substances from the residuum.*)	894	11th April 1861	Charles Noyes Kernot. Martin Diederich Rucker.
An improved method of making bread and obtaining starch from the materials employed simultaneously.	940	17th April 1861	Henry Anthonissen.
An improvement or improvements in the manufacture of cements or adhesive solutions for joining or connecting together surfaces or articles of leather, wood, paper or other similar materials.	1566	18th June 1861	Murdoch McKay.
An improvement in treating bones and the manufacture of the products thereof. (*Gelatine, glue, size.*)	2032	15th Aug. 1861	John Cowdery Martin.
Improvements in the manufacture and preparation of starch and in the apparatus employed therein.	2162	30th Aug. 1861	James Simmons Matthews.
Treating gelatine - - - - -	2394	25th Sept. 1861	Thomas Richardson. Robert Irvine.
Manufacture of starch and starch gum - -	2456	2nd Oct. 1861	William Maltby.
Treating bones and gelatine - - -	2677	25th Oct. 1861	Thomas Richardson. Robert Irvine
Manufacture of starch and of a vegetable sizing powder.	2903	19th Nov. 1861	Theophilus Redwood.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STARCH, &c.—*continued.*			
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Improvements in the manufacture of paste which is also applicable for sizing purposes.	2930	22nd Nov. 1861	William Hirst.
Improvements in the manufacture of starch and in apparatus employed therein - - -	3138	13th Dec. 1861	Thomas Killingworth Adkins. John Bonthron.
Manufacture of glue or size - - -	3163	17th Dec. 1861	John Dale.
STEAM AND OTHER BOILERS; CLEANSING AND PREVENTING INCRUSTATION OF BOILERS; WATER-FEEDING APPARATUS FOR BOILERS.			
I.—Constructing Steam and other Boilers; Generating and Superheating Steam; Preventing Boiler Explosions.			
Generating heat for locomotive, marine and other boilers and furnaces.	92	12th Jan. 1861	The Honourable William Edward Fitz-Maurice.
Improved apparatus for generating steam - -	94	12th Jan. 1861	Henry Matheson.
Improvements in screw propellers and in machinery or apparatus for actuating the same. (*Preventing "priming."*)	114	15th Jan. 1861	Robert Wilson.
Certain improved apparatus for preventing steam boiler explosions and for decolorizing the gaseous products of furnace fuel in a state of combustion.	190	24th Jan. 1861	Frederick George Mulholland.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapor, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Construction of boilers employed for warming buildings.	243	30th Jan. 1861	Samuel Thomas Crook.
Improvements in promoting the circulation of water in steam-boilers and in supplying water to steam-boilers.	254	30th Jan. 1861	Robert Bewick Longridge.
Improvements in steam-boilers and in seatings for the same.	312	7th Feb. 1861	John William Wilson.
Construction of steam generators employed for heating, drying, evaporating and other purposes. (*Communicated by Julien Fradet.*)	339	11th Feb. 1861	Marc Antoine François Mennons.
Steam generators or boilers - - -	419	20th Feb. 1861	Josiah Vavasseur.
Heating-apparatus - - - - (*For superheating steam.*)	487	25th Feb. 1861	James Young.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
Improvements in the building of boilers and boiler flues for the consumption of smoke.	535	2nd March 1861	William Hendry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in apparatus for the condensation of steam in marine engines, and in the particular application of parts thereof to the ship. (*Communicated by William Lighthall and Albert Nicholson Chrystie.*)	1849	23rd July 1861	William Clark.
Marine and other steam-boilers with reference to economy of fuel.	1932	3rd Aug. 1861	Patrick O'Hanlon.
Apparatus for heating water intended for the supply of steam-boilers.	2050	17th Aug. 1861	Zerah Colburn.
Apparatus for heating the feed water of steam-boilers, superheating steam, and surface condensation.	2108	23rd Aug. 1861	Samued Elson.
Apparatus for feeding boilers - - - (*Communicated by William Lane Chase.*)	2113	23rd Aug. 1861	George Tomlinson Bousfield.
Improvements in cleansing and in feeding boilers -	2130	26th Aug. 1861	Henry Attwood.
Steam boilers and generators - - -	2255	10th Sept. 1861	John Anthony.
Apparatus whereby to regulate the passage or flow of gas, water and other fluids.	2426	28th Sept. 1861	Denny Lane.
An improved apparatus for heating the feed water of steam engines. (*Communicated by Francis Bowes Stevens.*)	2536	10th Oct. 1861	William Edward Newton.
Certain improvements in the method of and apparatus for heating the "feed water" for steam-boilers, and in employing steam produced by such means - - - - -	2588	17th Oct. 1861	Thomas Wild. Thomas Hodson.
Improvements in steam generators and in furnaces for the same. (*Communicated by Alexandre Friedmann and Frederic Emile d'Erlanger.*)	2778	5th Nov. 1861	Richard Archibald Brooman.
Apparatus for raising and supplying water to boilers and for other purposes - - -	2933	22nd Nov. 1861	Renil De Clercq. Emile Chazelles.
Pumps - - - - - - - (*For donkey engines.*)	3048	5th Dec. 1861	John Knowelden.
Improvements in the mode of and apparatus for feeding steam-boilers also in apparatus for supplying fluids for other purposes, and in apparatus for raising fluids.	3126	13th Dec. 1861	Henry John Olding.
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
STEAM-ENGINES (*Stationary, Locomotive and Marine*).			
An improved slide valve - - - - (*Communicated by Jean Baptiste Edouard Plainemaison.*)	4	1st Jan. 1861	Michael Henry.
Construction of rotary engines - - - (*Motive-power engines.*)	10	2nd Jan. 1861	John Taylor. Meshach Brittan Cooper.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES, &c.—*continued.*			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Obtaining motive power - - - - - (*Communicated by Monsieur Main-Guillon.*)	31	5th Jan. 1861	William Edward Gedge.
Steam-engines - - - - - -	52	9th Jan. 1861	Daniel Adamson.
Rotary engines applicable to be worked by water, steam or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Traction engines - - - - - -	79	11th Jan. 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Improved apparatus for regulating the flow of gas, part of which is applicable to the valves of steam-engines. (*Communicated by Mr. D. H. Williams.*)	95	12th Jan. 1861	Elijah Freeman Prentiss.
Machinery or apparatus for obtaining motive-power (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Steam-engines and the machinery and apparatus connected therewith.	111	15th Jan. 1861	John Frederick Spencer.
Improvements in screw propellers and in machinery or apparatus for actuating the same.	114	15th Jan. 1861	Robert Wilson.
An improved device for balancing slide valves of steam-engines. (*Communicated by Andrew Buchanan and Peter Zeglio.*)	157	19th Jan. 1861	William Clark.
An improved induction and eduction valve for steam-engines. (*Communicated by Thomas Goodrum.*)	186	23rd Jan. 1861	Alexander Prince.
Improvements in obtaining motive-power from the expansion and compression of air, gas or vapour, and in the machinery or apparatus employed therein. (*Communicated by Auguste Prouvost.*)	212	26th Jan. 1861	John Henry Johnson.
Steam-engines - - - - - -	228	28th Jan. 1861	James Alfred Shipton.
An improved construction of motive-power engine (*Communicated by W. H. C. Voss.*)	272	1st Feb. 1861	Alfred Vincent Newton.
Pumping-engines - - - - - -	453	22nd Feb. 1861	Andrew Barclay.
Mode of applying engine power to wheels and other like instruments employed in producing locomotion whether by land or water.	485	25th Feb. 1861	John Barling.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given - - - -	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Pistons for pumps, steam-engines or other purposes. (*Communicated by Narcisse Ponche Joseph Scellier and Marie Pierre André Brasseur.*)	559	5th March 1861	George Henry Birkbeck.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES, &c.—*continued.*			
Improvements in the pistons of steam-engines and in the buckets and plungers for pumps.	573	6th March 1861	Joseph Hodgson.
Apparatus for lubricating the piston rods, pistons and cylinders of steam-engines and other frictional surfaces of machinery - - -	616	13th March 1861	Benjamin Grundy. Samuel Andrew.
Improvements in street railways and railways on common roads and in locomotive engines and carriages for the said railways.	676	18th March 1861	John Arrowsmith.
Steam-engines - - - - - (*Adapting for screw propulsion.*)	724	22nd March 1861	Edward Humphrys.
Steam-engines and boilers - - -	755	26th March 1861	Henry Spencer. Edmund Taylor.
Improvements in and connected with steam-engines - - - -	759	26th March 1861	Thomas Davison. Robert Paterson.
Machines worked by concentrated power - -	770	28th March 1861	François Chevillard.
Improvements in steam-engines and boilers and in apparatus connected therewith.	786	30th March 1861	John Cass.
Improvements in coining machinery and in apparatus employed for regulating the expansion of elastic fluids. (*Valve applicable to steam-engines.*)	862	8th April 1861	Henry Wollaston Blake.
Condensers - - - - -	880	10th April 1861	Andrew Lamb.
Improvements in steam-engines and in boilers for the same.	890	11th April 1861	William Bury.
Improvements in steam-engines and in generators to be used therewith.	898	11th April 1861	Samuel Roberts.
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
Construction of machinery or apparatus for obtaining motive-power.	975	19th April 1861	John Gjers.
Steam and other engines - - -	987	20th April 1861	George Augustus Huddart. Joseph Durham Erskine Huddart.
Steam-engines and their apparatus for generating steam.	1029	25th April 1861	George Scott.
Steam-engines and apparatus connected therewith.	1064	27th April 1861	Thomas William Miller.
Steam-engines - - - - -	1071	29th April 1861	James Mash.
Railway carriages and locomotive engines - -	1138	6th May 1861	William Johnson.
Springs for railroad cars and for carriages, and for many other purposes for which springs are used or required. (*For steam-engines.*)	1245	16th May 1861	Alexander T. Watson.
An improved machine for applying steam in a manner to cause direct rotation. (*Communicated by Messrs. Antonio Grande, Giovanni Battista Olivieri and Lorenzo Mongiardino.*)	1256	16th May 1861	Bernard Hudson.
Improvements in locomotive steam-engines and in buffer and draw springs for the same and for other railway rolling stock.	1261	17th May 1861	Alexander Allan.
Tractomotives or engines for running upon earth or on common roads. (*Communicated by Mr. Simon Stevens.*)	1279	18th May 1861	Benjamin Franklin Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES, &c.—*continued.*			
Construction of locomotive engines	1295	21st May 1861	Thomas Aveling. Henry Rawlinson.
Improvements in the manufacture of portable or traction steam-engines and in apparatus for cutting joints, heads of connecting rods and other articles	1331	27th May 1861	Joseph Lee. Benjamin Dutton Taplin.
Improvements in implements for pulverizing, ploughing and grubbing land, and in applying motive-power for working agricultural implements, parts of which improvements are applicable to condensing-engines	1402	4th June 1861	James Lamb Hancock. Frederick Lamb Hancock
Valves for steam and other engines.	1474	10th June 1861	David Rollo.
Rotary engines	1555	18th June 1861	James Miller. Henry Edward Skinner.
Steam-engines and machinery for giving motion to agricultural implements and other machines.	1569	18th June 1861	Joseph Edward Kirby.
Improvements in furnaces, boilers and condensers of steam-engines, part of such improvements being applicable to other purposes.	1572	19th June 1861	John Louch.
Locomotive engines	1578	19th June 1861	Joseph Faulding.
An improved piston	1602	21st June 1861	William Hobson. Thomas Cavill.
An improved method of supporting diagonal condensing and other steam-engines.	1643	27th June 1861	William McNaught.
An improved traction engine and apparatus applicable for the cultivation of land.	1688	3rd July 1861	John Simonton.
Steam-engines and the machinery and apparatus connected therewith.	1693	3rd July 1861	John Frederick Spencer.
Improvements in engines for obtaining motive-power by the elastic force of steam and air combined, parts of which improvements may be employed for sounding steam whistles. (*Communicated by Robert Rogers.*)	1702	4th July 1861	William Edward Newton.
Obtaining motive power (*Communicated by Monsieur Main-Guillon.*)	1710	5th July 1861	William Edward Gedge.
Machinery for obtaining and applying motive-power	1727	6th July 1861	Elias Robison Handcock.
Traction engines	1744	10th July 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Rotary steam-engines and pumps	1746	11th July 1861	George Weston. James Weston.
Apparatus and fittings connected with steam-engines and boilers.	1750	11th July 1861	James Farron.
Locomotive engines and trains	1757	12th July 1861	William Bridges Adams.
Improvements in lubricating those parts of steam-engines acted on by the steam and in apparatus for the same, which said apparatus can be used for other purposes	1763	13th July 1861	Isaac Beamish. Noah Beamish.
An improved combined locomotive engine and carriage. (*Communicated by Heinrich Ehrhardt.*)	1780	15th July 1861	Otto John Theodore Gössell.
Construction of steam-engines, air engines and pumps.	1794	17th July 1861	Andrew William Harnett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES, &c.—*continued.*			
Steam-engines, boilers, furnaces and apparatus applicable thereto - - - - -	1797	17th July 1861	John Parker. Joseph Wells. Benjamin Wells.
Slide valves - - - - - -	1803	17th July 1861	James Trigwell.
Improvements in apparatus for the condensation of steam in marine engines, and in the particular application of parts thereof to the ship. (*Communicated by William Lighthall and Albert Nicholson Chrystie.*)	1849	23rd July 1861	William Clark.
Steam-engines - - - - - -	1867	25th July 1861	Daniel Spink.
Apparatus for obtaining and applying the motive-power of steam.	1920	2nd Aug. 1861	Frederick William Turner.
Slide valves to regulate or stop the flow of water, steam or other fluid.	1939	5th Aug. 1861	Hermann Christian Meyer.
Steam-engines and boilers - - - - -	1979	8th Aug. 1861	Henry Kinsey.
Certain improvements in steam-engines - -	2017	14th Aug. 1861	Edward Alexander Rippingille.
An improvement in surface condensers - -	2056	19th Aug. 1861	George Thomas Selby.
Valves of steam-engines - - - - -	2062	20th Aug. 1861	Benjamin Hargreaves. John Hargreaves.
An improved steam mill or apparatus for transmitting motive-power. (*Communicated by Charles Halphen.*)	2068	20th Aug. 1861	Richard Archibald Brooman.
Arrangement and combination of high and low pressure steam-engines.	2131	27th Aug. 1861	Zerah Colburn.
Improvements in traction and locomotive engines -	2296	14th Sept. 1861	George Hawksley.
Traction engines - - - - - -	2321	17th Sept. 1861	Joseph Lee. Benjamin Dutton Taplin.
Valves of steam and other motive engines - -	2329	18th Sept. 1861	Alfred James Beer.
Certain improvements in the application of steam power.	2389	25th Sept. 1861	Joseph Musgrave.
Apparatuses for letting off water from and for admitting oil or other lubricating matter in steam cylinders. (*Communicated by Isidore Duballe.*)	2392	25th Sept. 1861	Richard Archibald Brooman.
Certain improvements in steam-engines and in valves for steam and other fluids.	2450	2nd Oct. 1861	James Hesford.
Construction of engines to be worked by steam, air or gases - - - - - -	2455	2nd Oct. 1861	James Davis. Thomas Evans.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
Certain improvements in steam-engines - -	2463	3rd Oct. 1861	John Charles Dickinson.
Condensing-apparatus - - - - -	2502	7th Oct. 1861	George Kelson Stothert.
Improved packing for engines and machinery -	2537	10th Oct. 1861	William Payne. John Burgum.
Condensers and condensing apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2543	11th Oct. 1861	William Edward Newton.
Marine steam-engines and boilers - - -	2558	14th Oct. 1861	William Macnab.
Condensers and condensing apparatus of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2569	15th Oct. 1861	William Edward Newton.
Apparatus for obtaining motive-power - -	2589	17th Oct. 1861	Thomas Edward Merritt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES, &c.—*continued.*			
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
Engines to be propelled by compressed atmospheric air or steam.	2625	21st Oct. 1861	Francis Alton Calvert.
Improvements in machinery for digging and cultivating the soil, and in steam-engines connected therewith and for other agricultural purposes.	2647	23rd Oct. 1861	John William Wilson.
Improvements in traction engines and wheels, and in carriages to be drawn by traction engines, which improvements in wheels are applicable to common road carriages generally.	2655	23rd Oct. 1861	John Marshall.
Condensation of steam by surface contact - -	2708	29th Oct. 1861	William Holland Furlonge.
Steam-engines and boilers - - - - - (*Communicated by Henry Giffard.*)	2749	1st Nov. 1861	Michael Henry.
Certain improvements in steam hammers and in valves applicable to the same and to other steam-engines.	2772	5th Nov. 1861	Robert Wilson.
Improvements in the construction of the wheels of traction engines and in the mode of adaptation to such engines.	2904	19th Nov. 1861	Jesse Lee.
Equilibrium lubricators for steam cylinders, valve boxes and other similar purposes - -	2905	19th Nov. 1861	John Taylor. Thomas Howard Hepworth.
Rotary engines - - - - - - (*Communicated by John Benjamin Root.*)	2928	21st Nov. 1861	William Edward Newton.
Locomotive steam carriages for common roads -	2931	22nd Nov. 1861	Alfred Fernandez Yarrow. James Bracebridge Hilditch.
Improved means of rendering steam tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus, for rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.
An improved apparatus for the multiplication of motive-power. (*See* "PROPELLING.") (*Communicated by Eugène Constant Marie Bonnier.*)	2942	23rd Nov. 1861	Marc Antoine François Mennons.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Construction and materials of surface condensers -	2951	25th Nov. 1861	Vaughan Pendred, junior.
Improvement in obtaining and applying motive steam and liquid power, and in apparatus connected therewith.	2953	25th Nov. 1861	John Macintosh.
Apparatus for regulating and indicating the speed of steam-engines and other machinery.	2979	27th Nov. 1861	John Standfield.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in apparatus for the condensation of steam in marine engines, and in the particular application of parts thereof to the ship. (*Communicated by William Lighthall and Albert Nicholson Chrystie.*)	1849	23rd July 1861	William Clark.
Marine and other steam-boilers with reference to economy of fuel.	1932	3rd Aug. 1861	Patrick O'Hanlon.
Apparatus for heating water intended for the supply of steam-boilers.	2050	17th Aug. 1861	Zerah Colburn.
Apparatus for heating the feed water of steam-boilers, superheating steam, and surface condensation.	2108	23rd Aug. 1861	Samued Elson.
Apparatus for feeding boilers - - - (*Communicated by William Lane Chase.*)	2113	23rd Aug. 1861	George Tomlinson Bousfield.
Improvements in cleansing and in feeding boilers -	2130	26th Aug. 1861	Henry Attwood.
Steam boilers and generators - - -	2255	10th Sept. 1861	John Anthony.
Apparatus whereby to regulate the passage or flow of gas, water and other fluids.	2426	28th Sept. 1861	Denny Lane.
An improved apparatus for heating the feed water of steam engines. (*Communicated by Francis Bowes Stevens.*)	2536	10th Oct. 1861	William Edward Newton.
Certain improvements in the method of and apparatus for heating the "feed water" for steam-boilers, and in employing steam produced by such means - - - - - -	2588	17th Oct. 1861	Thomas Wild. Thomas Hodson.
Improvements in steam generators and in furnaces for the same. (*Communicated by Alexandre Friedmann and Frederic Emile d'Erlanger.*)	2778	5th Nov. 1861	Richard Archibald Brooman.
Apparatus for raising and supplying water to boilers and for other purposes - - -	2933	22nd Nov. 1861	Renil De Clercq. Emile Chazelles.
Pumps - - - - - - - (*For donkey engines.*)	3048	5th Dec. 1861	John Knowelden.
Improvements in the mode of and apparatus for feeding steam-boilers also in apparatus for supplying fluids for other purposes, and in apparatus for raising fluids.	3126	13th Dec. 1861	Henry John Olding.
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
STEAM-ENGINES (*Stationary, Locomotive and Marine*).			
An improved slide valve - - - - (*Communicated by Jean Baptiste Edouard Plainemaison.*)	4	1st Jan. 1861	Michael Henry.
Construction of rotary engines - - - (*Motive-power engines.*)	10	2nd Jan. 1861	John Taylor. Meshach Brittan Cooper.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Improvements in steering or guiding steam or other vessels, and also in working or actuating their rudders - - - - - - -	247	30th Jan. 1861	John Poole. James Wright.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
An improved agricultural implement for cultivating land and for sowing seed. (*Turning the implement.*) (*Partly communicated by Guiden Huntington.*)	528	1st March 1861	Levi Lemon Sovereign.
Propelling and steering carriages and also ploughs and other agricultural implements.	636	14th March 1861	William Hodson.
Apparatus for propelling and steering vessels -	698	20th March 1861	Alexander Symons.
Improvements in steering ships or boats and in apparatus connected therewith - - - -	762	27th March 1861	William Jeffs. Joseph Pennock.
An improved method of propelling and steering steam vessels, and for a casing about the apparatus constituting therewith a steam condenser -	1201	11th May 1861	George Fowler Jones. James Jones.
Apparatus for propelling and steering carriages, which apparatus is also applicable for giving motion to machinery generally - - - -	1222	14th May 1861	August Friedrich Hildebrand.
Apparatus to be employed in steam cultivation -	1232	14th May 1861	James Howard. Edward Tenney Bousfield.
Improvements in the means of and apparatus for indicating the course to be steered in ships at sea and in galvanic batteries to be used in some cases therewith.	1378	1st June 1861	Frederic Newton Gisborne.
Ships' rudders - - - - - -	1401	4th June 1861	John Ford.
An equilibrium steering apparatus - - - -	1425	6th June 1861	Charles Stratford.
Construction, steering and propelling of ships and other floating bodies, and appliances adapted thereto.	1614	24th June 1861	Robert Moore.
Machines for ploughing or tilling land by steam power.	1628	25th June 1861	John Fowler, junior.
Machinery for drilling and hoeing land - -	1735	9th July 1861	Alfred Priest. William Woolnough, junior.
Improvements in the propulsion and steerage of ships or vessels, and in the construction and arrangement of the machinery connected therewith. (*Communicated by Pierre Louis Timothée Thier.*)	2119	26th Aug. 1861	Marc Antoine François Mennons.
Improvements in propellers, and in propelling vessels through water. (*And steering.*)	2249	9th Sept. 1861	Alfred Fryer.
Steering-apparatus - - - - - -	2304	16th Sept. 1861	Thomas Meriton.
Improvements in the construction of and appliances to steam ships or other vessels - - - (*Steering-apparatus.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Improvements in the construction of ploughs, drills, scarifiers and such like agricultural implements, the said improvements relating to the mode of guiding or steering the same.	2487	5th Oct. 1861	John Lansley.
Construction of sailing ships and other vessels - (*Steering.*)	2720	30th Oct. 1861	Evan Leigh.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Apparatus for propelling and steering vessels -	2966	26th Nov. 1861	Charles George Braxton.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Apparatus for steering and stopping vessels -	3088	9th Dec. 1861	Sussex Newton.
STONE AND SLATE, ARTIFICIAL STONE; GRINDSTONES AND MILLSTONES; SAND, LAVA.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	126	16th Jan. 1861	Joshua William Graham.
Manufacture of artificial stone and cement - -	505	27th Feb. 1861	Frederick Ransome.
Improved machinery for cutting or sawing wood, stone or any material capable of being cut or sawn by rapid reciprocating motion of the cutting or sawing blades.	519	28th Feb. 1861	Robert Thompson.
Improvements in the means of preserving stones, bricks, slates, wood and other analogous materials from the action of atmospheric and other influences, and also in the manufacture of mortar, cement, artificial stone and such like substances - - - - - -	626	14th March 1861	James Cane Coombe. James Wright.
Dressing or preparing the surface of mill stones - (*Communicated by Louis Wells Broadwell.*)	763	27th March 1861	William Spence.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stoneware and plastic clays, adapted for the construction of fireproof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Machinery for dressing and cutting stone - - (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STONE, &c.—*continued.*			
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware.	1269	18th May 1861	Archibald Campbell Ponton.
Machinery or apparatus for dressing slates - -	1272	18th May 1861	John Whitehead Greaves.
Improved machinery or apparatus for cutting stone of every description. (*Communicated by Pierre Martin.*)	1360	31st May 1861	William Edward Gedge.
An improved composition for building to be used in substitution for brick and stone, and an improved method of constructing walls and roofs for houses and other purposes.	1407	4th June 1861	Samuel Standfast.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	1653	28th June 1861	Joshua William Graham.
A new or improved process for the induration and preservation of stone and other analogous absorbent substances or materials, which process is also applicable to the production of artificial stone.	1738	9th July 1861	Frederick Settle Barff.
Improved machinery for dressing slates - -	1884	27th July 1861	Charles Edwards Amos. John Francis.
Apparatus for cutting slates and slabs - -	1911	1st Aug. 1861	Robert Harrison.
A new method of producing sand - - -	2010	13th Aug. 1861	John Lancaster.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
An improvement in mills for grinding - -	2051	17th Aug. 1861	Pleasant Hart.
Means to be employed in the dressing or cracking of mill stones. (*Communicated by David Monroe Childs.*)	2107	23rd Aug. 1861	Augustus Bryant Childs.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
Improvements in treating stone, bricks and other surfaces, and in the manufacture of filters -	2312	16th Sept. 1861	Frederic Maitland Ransome. Ernest Leslie Ransome.
Improvements in the manufacture of stones, bricks, tiles, slabs, statuary and such like materials, and in the method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - - - -	2335	19th Sept. 1861	James Cane Coombe. James Wright.
Improvements in slate dressing machines for cutting and trimming the edges of slates.	2678	25th Oct. 1861	Henry Gilson.
Machinery for breaking and crushing limestone and other hard substances.	2706	29th Oct. 1861	John Bibbington.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Apparatus for propelling and steering vessels -	2966	26th Nov. 1861	Charles George Braxton.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Apparatus for steering and stopping vessels -	3088	9th Dec. 1861	Sussex Newton.
STONE AND SLATE, ARTIFICIAL STONE; GRINDSTONES AND MILLSTONES; SAND, LAVA.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	126	16th Jan. 1861	Joshua William Graham.
Manufacture of artificial stone and cement - -	505	27th Feb. 1861	Frederick Ransome.
Improved machinery for cutting or sawing wood, stone or any material capable of being cut or sawn by rapid reciprocating motion of the cutting or sawing blades.	519	28th Feb. 1861	Robert Thompson.
Improvements in the means of preserving stones, bricks, slates, wood and other analogous materials from the action of atmospheric and other influences, and also in the manufacture of mortar, cement, artificial stone and such like substances - - - - - - -	626	14th March 1861	James Cane Coombe. James Wright.
Dressing or preparing the surface of mill stones - (*Communicated by Louis Wells Broadwell.*)	763	27th March 1861	William Spence.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stoneware and plastic clays, adapted for the construction of fireproof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Machinery for dressing and cutting stone - - (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STONE, &c.—*continued.*			
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone ware.	1269	18th May 1861	Archibald Campbell Ponton.
Machinery or apparatus for dressing slates - -	1272	18th May 1861	John Whitehead Greaves.
Improved machinery or apparatus for cutting stone of every description. (*Communicated by Pierre Martin.*)	1360	31st May 1861	William Edward Gedge.
An improved composition for building to be used in substitution for brick and stone, and an improved method of constructing walls and roofs for houses and other purposes.	1407	4th June 1861	Samuel Standfast.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	1653	28th June 1861	Joshua William Graham.
A new or improved process for the induration and preservation of stone and other analogous absorbent substances or materials, which process is also applicable to the production of artificial stone.	1738	9th July 1861	Frederick Settle Barff.
Improved machinery for dressing slates - -	1884	27th July 1861	Charles Edwards Amos. John Francis.
Apparatus for cutting slates and slabs - -	1911	1st Aug. 1861	Robert Harrison.
A new method of producing sand - - -	2010	13th Aug. 1861	John Lancaster.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
An improved manufacture of artificial stone or earthenware applicable for bricks, tiles, retorts, railway sleepers and other articles.	2034	15th Aug. 1861	Francis Allen Kain.
An improvement in mills for grinding - -	2051	17th Aug. 1861	Pleasant Hart.
Means to be employed in the dressing or cracking of mill stones. (*Communicated by David Monroe Childs.*)	2107	23rd Aug. 1861	Augustus Bryant Childs.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
Improvements in treating stone, bricks and other surfaces, and in the manufacture of filters -	2312	16th Sept. 1861	Frederic Maitland Ransome. Ernest Leslie Ransome.
Improvements in the manufacture of stones, bricks, tiles, slabs, statuary and such like materials, and in the method of and means for cleansing and indurating the same when employed in buildings or for building purposes, and for preserving them from atmospheric and other influences - - - -	2335	19th Sept. 1861	James Cane Coombe. James Wright.
Improvements in slate dressing machines for cutting and trimming the edges of slates.	2678	25th Oct. 1861	Henry Gilson.
Machinery for breaking and crushing limestone and other hard substances.	2706	29th Oct. 1861	John Bibbington.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Apparatus for propelling and steering vessels -	2966	26th Nov. 1861	Charles George Braxton.
An improved locomotive apparatus particularly adapted to agricultural purposes.	2948	23rd Nov. 1861	William Bray.
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Apparatus for steering and stopping vessels -	3088	9th Dec. 1861	Sussex Newton.
STONE AND SLATE, ARTIFICIAL STONE; GRINDSTONES AND MILLSTONES; SAND, LAVA.			
Treating lava and other volcanic substances in order to fit them for employment in certain arts and manufactures. (*Communicated by Pierre Antoine Collard.*)	63	10th Jan. 1861	Richard Archibald Brooman.
Certain improvements in machinery or apparatus for cutting, shaping and dressing stone or other similar substances.	126	16th Jan. 1861	Joshua William Graham.
Manufacture of artificial stone and cement - -	505	27th Feb. 1861	Frederick Ransome.
Improved machinery for cutting or sawing wood, stone or any material capable of being cut or sawn by rapid reciprocating motion of the cutting or sawing blades.	519	28th Feb. 1861	Robert Thompson.
Improvements in the means of preserving stones, bricks, slates, wood and other analogous materials from the action of atmospheric and other influences, and also in the manufacture of mortar, cement, artificial stone and such like substances - - - - - - -	626	14th March 1861	James Cane Coombe. James Wright.
Dressing or preparing the surface of mill stones - (*Communicated by Louis Wells Broadwell.*)	763	27th March 1861	William Spence.
Improvements in the manufacture of an artificial substance to be used as a coating or covering for stone, bricks, wood or metal, and also in the method of and means for manufacturing flags, bricks, blocks or paving from the said substance.	796	30th March 1861	Joseph Briggs.
Improvements in the manufacture, construction and ornamentation of articles made of terra-cotta, stoneware and plastic clays, adapted for the construction of fireproof stairs, steps, landings, slabs, tiles for roofing and paving, chimney shafts, columns for buildings, posts or standards, pedestals and statues, and in the method of moulding the same.	820	3rd April 1861	Mark Henry Blanchard.
Machinery for dressing and cutting stone - - (*Communicated by Pierre Joseph Morisseau.*)	865	9th April 1861	George Davies.
Improvements in the manufacture of artificial stone and cement or plaster, and in treating timber for the purpose of preserving the same.	877	9th April 1861	Frederick Ransome.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Improvements in steering or guiding steam or other vessels, and also in working or actuating their rudders - - - - - - -	247	30th Jan. 1861	John Poole. James Wright.
Improvements in steam-engines and boilers, and in propelling and steering vessels.	509	27th Feb. 1861	William Weallens.
An improved agricultural implement for cultivating land and for sowing seed. (*Turning the implement.*) (*Partly communicated by Guiden Huntington.*)	528	1st March 1861	Levi Lemon Sovereign.
Propelling and steering carriages and also ploughs and other agricultural implements.	636	14th March 1861	William Hodson.
Apparatus for propelling and steering vessels -	698	20th March 1861	Alexander Symons.
Improvements in steering ships or boats and in apparatus connected therewith - - - -	762	27th March 1861	William Jeffs. Joseph Pennock.
An improved method of propelling and steering steam vessels, and for a casing about the apparatus constituting therewith a steam condenser -	1201	11th May 1861	George Fowler Jones. James Jones.
Apparatus for propelling and steering carriages, which apparatus is also applicable for giving motion to machinery generally - - - -	1222	14th May 1861	August Friedrich Hildebrand.
Apparatus to be employed in steam cultivation -	1232	14th May 1861	James Howard. Edward Tenney Bousfield.
Improvements in the means of and apparatus for indicating the course to be steered in ships at sea and in galvanic batteries to be used in some cases therewith.	1378	1st June 1861	Frederic Newton Gisborne.
Ships' rudders - - - - - -	1401	4th June 1861	John Ford.
An equilibrium steering apparatus - - - -	1425	6th June 1861	Charles Stratford.
Construction, steering and propelling of ships and other floating bodies, and appliances adapted thereto.	1614	24th June 1861	Robert Moore.
Machines for ploughing or tilling land by steam power.	1628	25th June 1861	John Fowler, junior.
Machinery for drilling and hoeing land - -	1735	9th July 1861	Alfred Priest. William Woolnough, junior.
Improvements in the propulsion and steerage of ships or vessels, and in the construction and arrangement of the machinery connected therewith. (*Communicated by Pierre Louis Timothée Thier.*)	2119	26th Aug. 1861	Marc Antoine François Mennons.
Improvements in propellers, and in propelling vessels through water. (*And steering.*)	2249	9th Sept. 1861	Alfred Fryer.
Steering-apparatus - - - - - -	2304	16th Sept. 1861	Thomas Meriton.
Improvements in the construction of and appliances to steam ships or other vessels - - - - (*Steering-apparatus.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Improvements in the construction of ploughs, drills, scarifiers and such like agricultural implements, the said improvements relating to the mode of guiding or steering the same.	2487	5th Oct. 1861	John Lansley.
Construction of sailing ships and other vessels - (*Steering.*)	2720	30th Oct. 1861	Evan Leigh.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STONE, &c.—*continued.*			
Machines for boring holes in rocks and other hard substances.	3025	3rd Dec. 1861	Thomas Wright Gardener Treeby.
Machinery for cleaning rice and other grain -	3049	5th Dec. 1861	George Washington Robertson.
Manufacturing moulded earthen or stoneware cross sleepers for superseding wooden ones in the construction of railways.	3133	13th Dec. 1861	Pierre Quantin.
For Preserving Stone, *see* "PRESERVING WOOD." *For* Breaking Stones, *see* "GRINDING MINERALS."			
STRAPS, DRIVING-BANDS AND BELTS.			
An improved buckle - - - - - (*For straps or bands.*) (*Communicated by Simon Ghidiglia.*)	48	8th Jan. 1861	Pierre Emile Chassang.
An improved manufacture of belting - - (*Communicated by Charles Lezaire.*)	127	16th Jan. 1861	John Batley.
Coating, coloring and glazing or finishing laces, bands, straps, belts and other similar articles, and in the machinery or apparatus employed therein.	298	5th Feb. 1861	William Paton.
The production of a new composition or compositions of which refuse leather is the chief ingredient, and manufacturing therefrom articles of utility plain or ornamented. (*Driving-belts.*)	306	6th Feb. 1861	Thomas Gee.
Treating certain animal sinews in order to convert them into fibres or threads, preparing such threads or fibres to prevent decomposition, and the employment of the threads or fibres alone or mixed with other fibres for all purposes for which fibres are now used. (*For straps and bands.*)	307	6th Feb. 1861	Claude Marie Jules Bourcier. Thomas Allan.
A clasp or fastener for belts, bands or straps, or for improvements contained therein.	405	19th Feb. 1861	John Henry Brierley.
Improved bands for transmitting motion to machinery. (*Communicated by Jean Joseph Thiberge.*)	949	18th April 1861	Charles Stevens.
Treating hides and skins to render them suitable to be made into straps for driving machinery, and to be used for other purposes for which leather is commonly employed.	1035	25th April 1861	William Harris.
An improved construction of driving belt - -	1107	2nd May 1861	William Clissold.
Improvements in lapping used in machines for printing textile fabrics, part of which improvements is applicable to driving-bands. (*Communicated by Seth Baker.*)	1668	29th June 1861	Alfred Vincent Newton.
Preparation or treatment of skins and hides - - (*For manufacture of driving-bands.*) (*Communicated by Doctor Friedrich Knapp.*)	2716	29th Oct. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STRAPS, &c.—*continued.*			
Preparing and treating gutta-percha and india-rubber. (*Making banding.*)	2800	7th Nov. 1861	William Albert Shepard.
An improved arrangement of driving gear - -	3042	4th Dec. 1861	Robert Kennedy. James Armstrong.
Improvements in the manufacture of driving straps or bands, the backs of wire cards and cop tubes.	3224	24th Dec. 1861	John Bland Wood.
SUGAR AND SYRUPS.			
Construction of charcoal and other kilns - -	297	5th Feb. 1861	George Williams.
Improved materials for and improvements in the manufacture of sugar moulds. (*Communicated by Charles Emile André & Co.*)	493	26th Feb. 1861	Richard Archibald Brooman.
Apparatus for evaporating in vacuo - - (*Concentrating saccharine solutions.*)	781	30th March 1861	James John Field.
Obtaining jellies, syrups and drinks from the tree arbutus unedo or arbousier.	962	19th April 1861	Philippe Mingaud.
Machinery or apparatus for moving, conveying, transporting or transmitting bodies. (*As sugar loaves.*)	1004	23rd April 1861	Thomas Peters.
Machinery or apparatus for the manufacture of sugar.	1095	2nd May 1861	John Charles Wilson.
Improved apparatus for boiling sugar - - (*Communicated by Hector Lavignac.*)	1155	7th May 1861	George Davies.
Improvements in working sugar refineries and in sugar moulds and apparatus for trimming the loaves therein. (*Communicated by Jean Baptiste Joseph Quéruel.*)	1228	14th May 1861	Richard Archibald Brooman.
An improved crushing and pulverizing machine - (*For beetroots.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Preparation and clarification of the saccharine matters obtained from beetroot, sugar cane, Indian millet, and other sacchariferous vegetables or plants. (*Communicated by Louis Constant Bernard.*)	1856	24th July 1861	William Edward Gedge.
Manufacture of sugar - - - - -	1886	27th July 1861	Sir John Hare, *Knight.*
Improvements in bleaching and clarifying saccharine matters and in apparatus for the same. (*Communicated by Messrs. Edouard Théophile de Gemini and Edmond Oswald de Gemini.*)	1956	6th Aug. 1861	William Clark.
An improved "skipping dipper" or vessel for removing sugar and other liquids from boiling pans.	2074	20th Aug. 1861	Richard Sydney Lambert.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Pryatt.*)	2129	26th Aug. 1861	William Edward Newton.
Improvements in the manufacture of sugar and in the apparatus employed therein, also in the apparatus employed in reburning animal charcoal.	2146	28th Aug. 1861	James Duncan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
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Improved materials for and improvements in the manufacture of sugar moulds. (*Communicated by Charles Emile André & Co.*)	493	26th Feb. 1861	Richard Archibald Brooman.
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Obtaining jellies, syrups and drinks from the tree arbutus unedo or arbousier.	962	19th April 1861	Philippe Mingaud.
Machinery or apparatus for moving, conveying, transporting or transmitting bodies. (*As sugar loaves.*)	1004	23rd April 1861	Thomas Peters.
Machinery or apparatus for the manufacture of sugar.	1095	2nd May 1861	John Charles Wilson.
Improved apparatus for boiling sugar - - (*Communicated by Hector Lavignac.*)	1155	7th May 1861	George Davies.
Improvements in working sugar refineries and in sugar moulds and apparatus for trimming the loaves therein. (*Communicated by Jean Baptiste Joseph Quéruel.*)	1228	14th May 1861	Richard Archibald Brooman.
An improved crushing and pulverizing machine - (*For beetroots.*) (*Communicated by Adolphe Joseph Canu.*)	1488	11th June 1861	Charles Stevens.
Preparation and clarification of the saccharine matters obtained from beetroot, sugar cane, Indian millet, and other sacchariferous vegetables or plants. (*Communicated by Louis Constant Bernard.*)	1856	24th July 1861	William Edward Gedge.
Manufacture of sugar - - - - -	1886	27th July 1861	Sir John Hare, *Knight.*
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An improved "skipping dipper" or vessel for removing sugar and other liquids from boiling pans.	2074	20th Aug. 1861	Richard Sydney Lambert.
Improved machinery for filtering liquids, decolorizing saccharine and other juices, and rectifying alcoholic liquors. (*Communicated by Horatio Nelson Fryatt.*)	2129	26th Aug. 1861	William Edward Newton.
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Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SUGAR, &c.—*continued.*			
Machinery and apparatus for manufacturing and refining cane juice and other saccharine substances.	2288	14th Sept. 1861	Richard Waller.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*For sugar manufactories.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.
An improvement in the manufacture of sugar -	2526	9th Oct. 1861	John Schwartz.
Machinery or apparatus for the manufacture of sugar.	2754	2nd Nov. 1861	John Charles Wilson.
Improvements in evaporating and in machinery employed therein.	2789	6th Nov. 1861	Frederick Hills Schröder.
An improved means of defecating and purifying cane and other saccharine juices. (*Communicated by Louis Marie Amand Achille de Courson de la Villeneuve.*)	3112	12th Dec. 1861	Marc Antoine François Mennons.
Improvements in the manufacture of cube sugar - (*Communicated by Gustavus Finkin.*)	3257	30th Dec. 1861	William Edward Newton.
Improvements in revivifying animal black or charcoal, in collecting ammoniacal gases generated in the revivification, in the clarification of saccharine liquors, and in apparatus employed in the revivification of the black and in the filtering of saccharine liquors. (*Communicated by Absolon Hyppolyte Leplay and Jules François Joseph Cuisinier.*)	3275	31st Dec. 1861	Richard Archibald Brooman.
SULPHUR.			
Treatment of soda waste and sulphurets - -	330	9th Feb. 1861	John Louis Jullion.
Preparation of hydrated oxide of iron, and the application of such prepared oxide for the absorption or separation of sulphur from certain gases.	769	27th March 1861	Jacob Geoghegan Willans.
The treatment of ammoniacal waters resulting from putrified urines and from products extracted by the distillation of coal. (*Communicated by Messrs Louis Joseph Frédéric Margueritte and Alfred Lalouël de Sourdeval.*)	1217	13th May 1861	William Clark.
Treating tank refuse or soda waste - -	1704	4th July 1861	Thomas Wilson. James Graham Tatters.
Obtaining products from alkali waste and gas lime refuse. (*Sulphur.*)	1726	6th July 1861	Alfred Noble.
Manufacture of flowers of sulphur and roll and other forms of sulphur - - -	2855	13th Nov. 1861	William Henry Balmain. John Kean.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SURGERY, SURGICAL INSTRUMENTS, TRUSSES FOR HERNIA; INVALID FURNITURE AND CARRIAGES; FACILITATING HEARING.			
Improvements in the manufacture of blades for knives, razors, swords, bayonets and other similar articles, and in apparatus to be used in such manufacture. (*Lancets.*) (*Communicated by André Nadal.*)	115	15th Jan. 1861	George Davies.
Improvements in mechanical beds for invalids applicable also to tables for anatomical or surgical operations. (*Communicated by Charles Augustin de Beriot.*)	490	26th Feb. 1861	George Davies.
Improvements in specula and in plugs used in connection therewith.	502	27th Feb. 1861	Henry Joseph Francis Hubert Foveaux.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For surgical instruments and cases.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in apparatus for drawing blood or other fluids from the human or animal body.	1955	6th Aug. 1861	Alcidalis Auguste Romain Damoiseau.
Improvements in the construction of trusses and bandages for hernia, and of hypo-gastric girdles or belts.	1991	9th Aug. 1861	Adrien Ferdinand Benjamin Falgas.
An improved apparatus for the conveyance of medicinal substances into various parts of the human body.) (*Communicated by Salvator Vinci, M.D.*)	2293	14th Sept. 1861	Marc Antoine François Mennons.
Carriages - - - - - - - (*For invalids.*)	2374	23rd Sept. 1861	Vincent Jankowski.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed. (*Handles for surgical instruments; acoustic instruments.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
The collection, concentration and transmission of sound so as to facilitate the hearing thereof.	2613	19th Oct. 1861	John Marshall.
Improved apparatus for ascertaining the presence and degree or cessation of vitality in the human body and in animals of the higher class, applicable to the semeioses of health, disease and death. (*Communicated from Léon Victor Collongues.*)	2683	26th Oct. 1861	Marc Antoine François Mennons.
Machinery or apparatus for the manufacture of elastic surgical stockings, socks, knee caps, belts, bands or other articles.	2709	29th Oct. 1861	William Savile.
A new or improved apparatus for supporting the womb in cases of prolapsus uteri. (*Communicated by Doctor Otto Langgaard.*)	2976	26th Nov. 1861	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SURGERY, &c.—*continued.*			
Construction of invalid bedsteads convertible into other articles of furniture for the use of invalids.	3022	2nd Dec. 1861	James Wakenell.
A new and improved electro-voltaic pocket battery (*Partly communicated by Henry Palmer.*)	3100	10th Dec. 1861	John Washington Agnew.
SWIMMING, PREVENTION OF DROWNING, SWIMMING BELTS AND APPARATUS.			
Life belts and swimming belts - - - (*Communicated by Messrs. Torrilhon, Verdier and Company.*)	601	11th March 1861	John Henry Johnson.
Improved apparatus for saving life at sea or in other waters. (*Communicated by Joseph Dauphin St. Supery.*)	629	14th March 1861	William Edward Gedge.
Apparatuses for supporting persons in and for enabling them to progress through the water.	2308	16th Sept. 1861	William Stewart.
An improved apparatus for conveying a line or other medium of communication from a ship or vessel, for the purpose of obtaining relief or assistance in case of shipwreck or for any other purpose to which the invention may apply.	2442	1st Oct. 1861	William Edsall Matthews.
An improved method of effecting communication between places otherwise inaccessible to each other, by means of kites and an apparatus connected therewith.	2494	5th Oct. 1861	George Nares.
Improved natatory apparatus - - - (*With articulated fins or propellers.*) (*Communicated by Léon Lejuste.*)	3079	9th Dec. 1861	Marc Antoine François Mennons.
For Life Boats, *see* "SHIP-BUILDING."			
TAR, PITCH, RESIN, CREOSOTE, CHAPAPOTE.			
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan") and all other woody fibre, also improved apparatus to be employed therefor. (*Obtaining tar.*)	650	15th March 1861	William Lorberg.
Obtaining products from sea weeds - - (*Tar, pitch, creosote.*)	1411	4th June 1861	Edward Charles Stanford

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TAR, &c.—*continued.*			
A new process of discoloring, purifying and improving varnish, oil, resin, gum, ether, wines, spirits and other matters, through the application of compressed air.	2906	19th Nov. 1861	Simon Dédé.
Improvements in treating fatty and resinous bodies either in a neutral or acid state. (*Communicated by Charles Moinier.*)	3241	27th Dec. 1861	Peter Armand Le Comte de Fontainemoreau.
TELEGRAPHS (ELECTRIC); TELEGRAPHIC PRINTING APPARATUS.			
Insulating the conducting wires used for telegraphic purposes.	47	8th Jan. 1861	Hermann Hirsch.
Apparatus to be employed in coiling and paying out electric telegraph cables. (*Partly communicated by Samuel Canning.*)	103	14th Jan. 1861	Henry Clifford.
Manufacture of telegraphic cables - - -	175	22nd Jan. 1861	John Chatterton. Willoughby Smith.
Construction of masts and posts - - -	193	24th Jan. 1861	George Thomas Selby.
Construction of cables for telegraphic purposes -	260	31st Jan. 1861	Stephen Moulton.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arricta.
Telegraph cables - - - - -	322	8th Feb. 1861	John Branscombe.
Improvements in the construction of submarine telegraphic cables and in the means of protecting the same from undue strain or wear and tear.	329	9th Feb 1861	David Ker.
Electric telegraph conductors - - -	353	12th Feb. 1861	Alexander Parkes.
Improvements in instruments or a combination of conductors and attachments for transmitting and recording messages in any form of letter or character by means of electricity or electro-magnetism acting either mechanically or chemically, and which invention may also be applied to the transmitting or copying figures, as maps of any form of outline.	400	18th Feb. 1861	Edmund Forman Barnes.
Apparatus for suspending electric telegraph wires -	466	23rd Feb. 1861	William O'Shaughnessy Brooke.
Manufacture and mode of laying down submarine electro-telegraphic cables.	481	25th Feb. 1861	George Clark.
Insulating and covering the conducting wires used for telegraphic purposes.	549	4th March 1861	Hermann Hirsch.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - -	569	6th March 1861	Hugh Adams Silver. Henry Griffin.
Telegraphic cables - - - - -	579	7th March 1861	Thomas William Evans, M.D.
An improved telegraphic apparatus - -	688	19th March 1861	James Smith. Sydney Arthur Chease.
Insulators for telegraph wires - - -	710	21st March 1861	William Andrews.
Improvements in electric telegraphs and in apparatus connected therewith. (*And in submerging cables.*)	734	23rd March 1861	William Thomas Henley.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.
Submarine telegraph cables - - -	753	25th March 1861	John Chatterton. Willoughby Smith.
Manufacture and insulation of telegraph cables and telegraphic wires in general, and of apparatus for laying marine telegraph cables.	800	1st April 1861	Richard Searle.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For insulating electric wires, making cables, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in electro-magnetic telegraphs and in apparatus connected therewith.	858	8th April 1861	Henry Wilde.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
Electric telegraph apparatus - - - - (*Communicated by Marco Maroni.*)	959	18th April 1861	John Henry Johnson.
An improved process for manufacturing india-rubber pipes. (*For covering telegraph wires.*)	981	20th April 1861	Jean Baptiste Jules Noirot.
Telegraphic apparatus - - - - - (*Communicated by Ernest Gabriel Baptiste Guillier.*)	1013	23rd April 1861	Michael Henry.
Electric telegraphs - - - - -	1113	3rd May 1861	Owen Rowland.
Obtaining and applying electricity for telegraphic and other purposes.	1147	7th May 1861	Hermann Hirsch.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Obtaining electric currents for telegraphing purposes.	1273	18th May 1861	Desmond Gerald Fitzgerald.
Electric telegraph apparatus - - - - (*Communicated by Mr. Ludovic Guyot d'Arlincourt.*)	1278	18th May 1861	William Clark.
Improvements in obtaining and applying magnetic motive-power, which invention is also applicable to other useful purposes. (*Telegraphing.*)	1322	25th May 1861	Edward Henry Cradock Monckton.
Construction of electric telegraph cables or ropes -	1329	27th May 1861	Charles Stewart Duncan.
Improvements in the manufacture of insulators for telegraphic wires and in materials and machinery for coating telegraphic wires - - - -	1406	4th June 1861	Heinrich Gottlieb. Bernhard Roeber.
Electric telegraphs - - - - - - -	1484	10th June 1861	Cromwell Fleetwood Varley.
Posts or supports for telegraph wires - -	1512	12th June 1861	Robert Jobson. Cromwell Fleetwood Varley.
Certain improvements in the manufacture of metallic posts for supporting telegraph wires, and which said improvements are also applicable for other purposes.	1539	15th June 1861	Ferdinand Potts.
Electro-magnetic telegraph printing apparatus or marking instruments.	1554	18th June 1861	James Banks.
Telegraphic apparatus - - - - -	1785	16th July 1861	James Mapple.
Apparatus for suspending and insulating electric telegraph wires.	1800	17th July 1861	Sir William O'Shaughnessy Brooke.
Mode of insulating and covering wire - -	1806	18th July 1861	Charles West.
Joining wire for telegraphic conductors and other purposes - - - - - -	1907	31st July 1861	John Rylands. Thomas Glazebrook Rylands. Peter Rylands.
Improvements in electro-magnetic telegraphs and in apparatus connected therewith.	1994	10th Aug. 1861	Henry Wilde.
A new and economical method of producing dynamic electricity thereby obtaining useful chemical compounds. (*Or for telegraphing.*) (*Communicated by Jean Baptiste Théodore Rousse.*)	2127	26th Aug. 1861	Frederick Tolhausen.
Type printing telegraphs - - - - -	2147	28th Aug. 1861	Meinrad Theiler.
Improvements in apparatus employed in connection with electric telegraphs, part of which improvements are also applicable to ascertain the heat in inaccessible places. (*Partly communicated by Werner Siemens.*)	2181	31st Aug. 1861	Charles William Siemens.
Apparatuses for stretching, supporting and uniting telegraph wires. (*Communicated by Charles Pougnaire and Joseph Stephane Bourcy.*)	2310	16th Sept. 1861	Richard Archibald Brooman.
Improvements in electro-magnetic telegraph printing-apparatus or marking instruments, and the instruments or apparatus to be used in connection therewith.	2387	25th Sept. 1861	James Banks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Construction of and mode of working telegraphic apparatus. *Communicated by Giovanni Caselli*	2295	25th Sept. 1861	Alfred Vincent Newton.
Telegraphs - - - - - - -	2429	26th Sept. 1861	Meinrad Theiler.
Improvements in magnetic and electric telegraph apparatus, which are also applicable to other purposes.	2464	3rd Oct. 1861	William Thomas Henley.
Electric telegraph apparatus - - -	2545	12th Oct. 1861	John Clark.
Improvements in magnets, inductive coils, and in insulating wire and metal for electric and other purposes - - - - - -	2661	24th Oct. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
Printing-telegraphs - - - - -	2725	30th Oct. 1861	William Cook. Henry Cook.
Certain improvements in the construction of cables or chains for telegraphic and other purposes, and for machinery connected therewith.	2755	2nd Nov. 1861	Thomas Walker.
Improvements in the construction of parts of electric telegraph bell apparatus, and in apparatus used in making the same. *Communicated by Mr. Pierre Désiré Prud'homme.*	2901	27th Nov. 1861	William Clark.
Improvements in magneto-electric telegraphs and in apparatus connected therewith.	2997	28th Nov. 1861	Henry Wilde.
Electric telegraphs - - - - - -	3015	29th Nov. 1861	Edward Tyer.
Electric telegraphs - - - - - -	3078	9th Dec. 1861	Cromwell Fleetwood Varley.
An improved mode of jointing or connecting telegraph wires, which is also applicable to jointing or connecting signal wires, fencing wires and other wires or rods.	3109	11th Dec. 1861	John Potter.
Submarine electric telegraphic cables - -	3170	18th Dec. 1861	William Dicey.
Improvements in submarine and other telegraphic communication, and in apparatus connected therewith - - - - - -	3205	21st Dec. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
TESTING APPARATUS.			
Instruments for testing the alcoholic strengths of liquids. (*Communicated by Miss Marie Euphrosyne Elisabeth Brossard-Vidal and Mr. Alexandre Auguste Napoléon Patte.*)	284	2nd Feb. 1861	William Clark.
Improvements in spring balances or weighing-machines and in dynamometers.	909	13th April 1861	John Silvester.
Certain improved methods of and apparatus for ascertaining and removing impurities contained in water.	1316	24th May 1861	Frederick Hahn Danchell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TESTING APPARATUS, &c.—*continued.*			
Improved apparatuses for indicating escapes of lighting gas from the conveying pipes and determining the precise leaking places of the said pipes. (*Communicated by Charles Antoine Fournier.*)	2692	26th Oct. 1861	Charles Stevens.
Electric telegraphs - - - - - - (*Static testing arrangement.*)	3078	9th Dec. 1861	Cromwell Fleetwood Varley.
Improved modes of constructing balances, weigh bridges and other weighing-machines.	3177	18th Dec. 1861	Jean Marie Hospice Auguste Taurines.
THERMOMETERS, BAROMETERS, HYGROMETERS.			
Instruments or apparatus for indicating or measuring the pressure of steam and other fluids. (*For barometers.*)	159	21st Jan. 1861	Charles Edmund Albrecht.
Mountain and other barometers - - -	238	29th Jan. 1861	Enrico Angelo Ludovico Negretti. Joseph Warren Zambra.
Instruments for testing the alcoholic strength of liquids. (*Communicated by Miss Marie Euphrosyne Elisabeth Brossard-Vidal and Mr. Alexandre Auguste Napoléon Patte.*)	284	2nd Feb. 1861	William Clark.
Means for indicating and representing various meteorological or atmospherical phenomena or influences. (*See* "MAPS.")	625	14th March 1861	Arthur John Joyce.
An improvement or improvements in the manufacture of the bezels or rings used in glazing the dials of clocks, barometers and steam gauges, and for other like purposes.	961	19th April 1861	Arthur Frederick Eaves.
An improved thermometrical fire-alarum and extinguisher.	1173	9th May 1861	George Carter.
An improved construction of self-registering thermometer.	1244	15th May 1861	James Hicks.
An improved electro-thermometrical alarum -	1443	7th June 1861	Hyppolite Auguste Balsac.
Barometers - - - - - - -	1616	24th June 1861	Richard Howson.
Improvements in the construction of barometers and in apparatus for registering the indications of the same.	1733	9th July 1861	Thomas Telford Macneill.
Mercurial thermometers - - - -	2100	22nd Aug. 1861	Louis Marino Casella.
Barometers - - - - - - -	2560	14th Oct. 1861	John Browning.
An improved hygrometer for measuring the humidity of the atmosphere, dampness of beds, garments and for other similar puposes.	2790	6th Nov. 1861	Frederick George Stuber.
Aneroid barometers - - - - -	2947	23rd Nov. 1861	James Pitkin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THERMOMETERS, &c.—*continued.*			
Improvements in and apparatus for the production and application of motive-power in locomotive and other steam-engines. (*Heat indicators.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	3140	13th Dec. 1861	Richard Archibald Brooman.
THRASHING, WINNOWING, HULLING, DRESSING, CLEANSING, DRYING, STORING AND PRESERVING CORN, GRAIN, SEEDS, AND RICE; GRANARIES.			
Thrashing-machines - - - - - (*Communicated by Mr. Charles Emile Lambert, junior.*)	181	23rd Jan. 1861	William Clark.
Machinery or apparatus for roasting coffee and other seeds and roots, and for drying grain. (*Communicated by Robert Harper.*)	259	31st Jan. 1861	John Henry Johnson.
Improved apparatus to be used on the decks of ships for the purpose of separating chaff, straw, sand or other foreign substances from corn or other grain when it is being deposited in their holds for shipment.	444	22nd Feb. 1861	Henry Griffiths Prossor.
Machinery for cleansing or dressing bass, flax and other vegetable fibres, applicable also to the thrashing of corn and other grain.	654	15th March 1861	Augustus Smith.
An improvement or improvements in thrashing-machines - - - - - -	757	26th March 1861	John Smith. John Birch Higgs.
Improvements in the method of and apparatus for preventing the deterioration of grain when deposited in the holds of vessels for shipment, and also in the application of the said method and apparatus to vessels engaged in shipping grain from one port to another.	867	9th April 1861	Henry Griffiths Prossor.
Method of and apparatus for drying and preparing grain, seeds or berries for food and other purposes - - - - - - -	892	11th April 1861	Thomas Don. Thomas Smith. Loxley Horsfield.
Desiccating and torrefying farinaceous and other substances. (*Communicated by Francis Huckins.*)	1076	29th April 1861	William Edward Newton.
Machinery or apparatus for dressing and polishing rice.	1423	6th June 1861	Sampson Moore.
Improvements in drying, sweetening, purifying and otherwise improving wheat and other grain, and in apparatus for the same.	1436	6th June 1861	Alfred Smith.
Improved means or apparatus for drying, sifting and cleansing grain and other agricultural produce. (*Communicated by Antoine Auguste Dubard-Dutarbre.*)	1589	20th June 1861	William Edward Gedge.
Thrashing-machines - - - -	1742	9th July 1861	Richard Hornsby, junior.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THRASHING, &c.—*continued.*			
Machinery or apparatus for cleaning rice. (*Communicated by Henry Beaufort Sears.*)	1779	15th July 1861	John Henry Johnson.
Stacking corn and other crops - - -	1786	16th July 1861	John Goucher.
Improved machinery for cleaning rice, coffee and other grains or seeds.) (*Communicated by Amasa Howe.*)	1922	2nd Aug. 1861	William Edward Newton.
An improved apparatus for beating or thrashing grain. (*Communicated by Monsieur Saint Marc, junior.*)	1970	8th Aug. 1861	John Gedge.
Mills for crushing and grinding mineral and vegetable substances, and for hulling or shelling beans and oats, and other grain and seeds.	2148	29th Aug. 1861	Samuel Corbett.
Machinery for cleaning rice and other grain - - (*Communicated by Albert Hubbell Wright.*)	2153	29th Aug. 1861	Alfred Vincent Newton.
Thrashing-machines - - - - (*Communicated by Jean Florent Dussol.*)	2160	30th Aug. 1861	William Edward Gedge.
Improvements in cleansing cotton seeds and in machinery used for such process.	2179	31st Aug. 1861	John Macmillan Dunlop.
An improved machine for purifying and peeling corn.	2274	13th Sept. 1861	William Henry Delamare.
Apparatus for drying grain - - - - - (*And rice, &c.*) (*Communicated by Casimir Druart.*)	2302	16th Sept. 1861	William Edward Gedge.
Improvements in thrashing-machines, and in raising and stacking straw and other agricultural produce.	2313	16th Sept. 1861	Weston Tuxford.
Thrashing-machines - - - - -	2353	20th Sept. 1861	Joseph Christian Davidson.
Apparatus for raising and stacking straw and other agricultural produce.	2373	23rd Sept. 1861	Henry Brinsmead.
Construction of combined thrashing and dressing machines.	2505	7th Oct. 1861	John Chaplin Willsher.
Improved machinery for dressing or cleaning wheat and other grain. (*Communicated by Samuel Bentz.*)	2555	12th Oct. 1861	Alfred Vincent Newton.
Machine to decorticate corn and seeds - -	2582	17th Oct. 1861	Louis Alexandre Joseph Deplanque.
Beaters and drums used in thrashing-machines -	2594	18th Oct. 1861	John Goucher.
Improvements in the construction of wind engines and in the structure containing the same, parts of which are applicable in the construction of windmills. (*For thrashing corn.*)	2599	18th Oct. 1861	William Streather.
An improved apparatus for purifying, measuring and weighing grain and oleaginous seeds.	2686	26th Oct. 1861	Jean Louis Sicard.
Improvements in beating, stretching and drying fabrics and in the apparatus employed therein, part of which apparatus is also applicable for thrashing linseed. (*Partly communicated by William Aldon.*)	2689	26th Oct. 1861	James Lee Norton.
Improvements in granaries and the apparatus connected therewith.	2704	29th Oct. 1861	Joseph Martin.
Machinery or apparatus for preparing grain for brewers. (*Separating, dressing, &c.*)	2710	29th Oct. 1861	Richard Gibbon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THREADS, &c.—*continued.*			
An improved method of producing mixed-coloured woollen and other threads. (*Communicated by Stanislas Vigoureux.*)	2253	9th Sept. 1861	Richard Archibald Brooman.
The application of a new material in the manufacture of paper, cardboard and yarns - - (*See* "SPINNING.")	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Production of cotton, worsted or composite yarns -	2747	1st Nov. 1861	Richard Rountree Priestly.
Improvements in the manufacture of printed yarns, and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads.	2842	12th Nov. 1861	William Tongue.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses. (*For weaving.*)	2880	15th Nov. 1861	Werner Staufen.
TOBACCO AND SNUFF; CIGARS, CIGAR-HOLDERS, PIPE AND CIGAR LIGHTERS; SMOKING-PIPES, TOBACCO AND SNUFF BOXES; TOBACCO POUCHES.			
Pouches or receptacles for tobacco and other articles	104	14th Jan. 1861	James Horsey.
Tobacco pouches, purses and other such like receptacles - - - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
Treating the tobacco plant in order to manufacture paper. (*Communicated by Messrs. Michel Chominot and Picard.*)	347	11th Feb. 1861	Richard Archibald Brooman.
An improved gas apparatus intended chiefly for lighting pipes, cigars and cigarettes. (*Communicated by Pierre Duchamp.*)	348	11th Feb. 1861	Richard Archibald Brooman.
An improved cigar or pipe rack which is also applicable for other purposes.	350	12th Feb. 1861	Sidney Frankau.
Construction of tobacco pipes - - -	494	26th Feb. 1861	William Parish.
Certain improvements in pipes for smoking tobacco	756	26th March 1861	Samuel Lamb.
Improvements in travelling bags or cases and in fittings for the same, a part of which fittings is applicable to holding cigars and other like articles.	776	28th March 1861	James Sanderson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista, and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For ornamenting tobacco, snuff and cigar boxes and cases, for cigar tubes, &c.*)	853	6th April 1861	Thomas Goulston Ghiślin.
Fastenings for porte-monnaies, pocket-books, cigar cases and similar articles. (*Communicated by Siegmund Rothschild.*)	1176	9th May 1861	Ferdinand Stern.
Improvements in the manufacture of cigars and cigarettes, and in the apparatus employed in such manufacture.	1283	20th May 1861	Joseph Jobin. James Weber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THRASHING, &c.—*continued.*			
Apparatuses for drying hops, malt, grain and other vegetable substances, part of which is applicable as a fan or blower. (*Communicated by Joseph Perrigault.*)	2798	7th Nov. 1861	Henry Gould Gibson.
Apparatus for stacking straw and other agricultural produce.	2818	9th Nov. 1861	Samuel William Campain.
Carriers or stackers or apparatus for facilitating the stacking of straw, hay or agricultural produce.	2854	13th Nov. 1861	Thomas Procter.
Machinery or apparatus for shelling and cleaning rice and other grain. (*Communicated by Wellington Lee.*)	2960	25th Nov. 1861	John Henry Johnson.
Machinery for cleaning rice and other grain - -	3049	5th Dec. 1861	George Washington Robertson.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes.	3118	12th Dec. 1861	Augustus Tonnar.
Apparatus for desiccating grain, seeds and other articles.	3178	18th Dec. 1861	James Bannehr.
Improvements in thrashing-machines and in mills for grinding, and in apparatus for raising or moving grain in granaries and other places -	3188	20th Dec. 1861	John Smith, junior. John Birch Higgs.
Improvements in apparatus for cleaning wheat and other grain. (*Communicated by Jean Pierre Fili.*)	3214	24th Dec. 1861	John Henry Johnson.
Improvements in apparatus for drying wool and other fibres and substances. (*Seeds, &c.*)	3223	24th Dec. 1861	Edward Barnard Sampson.
THREADS AND YARNS.			
Manufacture of yarns or threads - - - (*Communicated by Antoine Louis Warnery.*)	581	7th March 1861	William Edward Newton.
An improved thread for weaving and other uses - (*Communicated by Charles Lewandoski.*)	1124	4th May 1861	Richard Archibald Brooman.
The manufacture of threads, cords, fabrics, felt and pulp from the hop plant. (*Communicated by Barthelemy Picard.*)	1141	6th May 1861	Richard Archibald Brooman.
Machinery for the manufacture of "topped up," "formed" or "laid" thread, twine, cord, line, cable and other cordage.	1352	30th May 1861	James Ronald.
Combining or mixing various colours of wool or other fibrous substances in the preparation of yarns for textile fabrics.	1476	10th June 1861	John Oldroyd.
A new kind of yarn being a combination of refuse and waste matters of fibrous materials and the said fibrous materials, and the cloth woven therefrom.	1968	8th Aug. 1861	John Eastwood. Thomas Charles Eastwood.
An improved thread protecting clew box - -	2133	27th Aug. 1861	Louis Marie François Patureau.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THREADS, &c.—*continued.*			
An improved method of producing mixed-coloured woollen and other threads. (*Communicated by Stanislas Vigoureux.*)	2253	9th Sept. 1861	Richard Archibald Brooman.
The application of a new material in the manufacture of paper, cardboard and yarns - - (*See* "SPINNING.")	2550	12th Oct. 1861	Victor Pirson. Augustus Dekeyser.
Production of cotton, worsted or composite yarns -	2747	1st Nov. 1861	Richard Rountree Priestly.
Improvements in the manufacture of printed yarns, and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads.	2842	12th Nov. 1861	William Tongue.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses. (*For weaving.*)	2880	15th Nov. 1861	Werner Staufen.
TOBACCO AND SNUFF; CIGARS, CIGAR-HOLDERS, PIPE AND CIGAR LIGHTERS; SMOKING-PIPES, TOBACCO AND SNUFF BOXES; TOBACCO POUCHES.			
Pouches or receptacles for tobacco and other articles	104	14th Jan. 1861	James Horsey.
Tobacco pouches, purses and other such like receptacles - - - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
Treating the tobacco plant in order to manufacture paper. (*Communicated by Messrs. Michel Chominot and Picard.*)	347	11th Feb. 1861	Richard Archibald Brooman.
An improved gas apparatus intended chiefly for lighting pipes, cigars and cigarettes. (*Communicated by Pierre Duchamp.*)	348	11th Feb. 1861	Richard Archibald Brooman.
An improved cigar or pipe rack which is also applicable for other purposes.	350	12th Feb. 1861	Sidney Frankau.
Construction of tobacco pipes - - -	494	26th Feb. 1861	William Parish.
Certain improvements in pipes for smoking tobacco	756	26th March 1861	Samuel Lamb.
Improvements in travelling bags or cases and in fittings for the same, a part of which fittings is applicable to holding cigars and other like articles.	776	28th March 1861	James Sanderson.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista, and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For ornamenting tobacco, snuff and cigar boxes and cases, for cigar tubes, &c.*)	853	6th April 1861	Thomas Goulston Ghiślin.
Fastenings for porte-monnaies, pocket-books, cigar cases and similar articles. (*Communicated by Siegmund Rothschild.*)	1176	9th May 1861	Ferdinand Stern.
Improvements in the manufacture of cigars and cigarettes, and in the apparatus employed in such manufacture.	1283	20th May 1861	Joseph Jobin. James Weber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TOBACCO, &c.—*continued.*			
An improved fastening for purses, reticules, bags, belts, bands, pocket-books, cigar, writing and instrument cases and other similar purposes. (*Communicated by Messrs. Stautz and Company.*)	1355	30th May 1861	Louis Heinemann.
Machinery or apparatus for manufacturing snuff -	1560	18th June 1861	William Fleming.
Manufacture from steatite of journals, axle boxes and bearings for machinery axles and spindles to work in, smoking pipes, buttons, crucibles and pots for chemical and smelting purposes, and also of a lubricating compound for railway and other carriages.	2031	15th Aug. 1861	John Bethell.
Preparation, application and manufacture of peat - (*For tobacco pipes.*)	2058	19th Aug. 1861	William Henry Smith.
Manufacture of smoking pipes and cigar tubes, and preparing, washing, coating, covering or otherwise impregnating them with aromatic substances in a solid, liquid or aëriform state.	2114	24th Aug. 1861	Michael Hyams.
Machinery or apparatus for making cigars - - (*Communicated by Albert Reiniger.*)	2251	9th Sept. 1861	John Henry Johnson.
An improvement in the manufacture of cigars -	2648	23rd Oct. 1861	Henry Keach.
Match boxes or cases - - - - - (*And adaptation to cigar boxes.*)	2821	9th Nov. 1861	Edward Loysel.
Pouches - - - - - - - (*For tobacco.*)	2909	19th Nov. 1861	Joseph Schloss.
Clasps or fastenings of purses, bags, portfolios, tobacco pouches and other like articles. (*Communicated by Mr. Joseph Schoenfeld.*)	2990	27th Nov. 1861	William Clark.
Manufacture of coverings for the ends of cigars -	3180	19th Dec. 1861	William Betts.
A new process for colouring smoking pipes -	3273	31st Dec. 1861	Jean Baptiste Cretal.
TOYS, GAMES AND EXERCISES.			
Construction of children's rocking toys - - (*Communicated by David R. Smith.*)	149	19th Jan. 1861	Robert Marsden Latham.
An improved construction of rocking horse - - (*Partly communicated by Jesse Adams Crandall.*)	496	26th Feb. 1861	John Henry Bartholf.
An improved method of and apparatus for imparting the motion of riding to wooden or metal horses, part of which is applicable to cradles and other similar appliances.	578	7th March 1861	William Sadler Kennedy.
Gutta-percha and india-rubber toys - - (*Communicated by Henry Galante.*)	1146	7th May 1861	Charles Stevens.
A new locomotive apparatus having a movement resembling walking. (*To be applied to dolls and toys.*) (*Communicated by Messrs. Thomas Hanlon, George Hanlon, William Hanlon, Alfred Hanlon, Edward Hanlon and Frederick Hanlon.*)	1664	29th June 1861	William Clark.
An improvement in the construction of tennis and racket bats.	2035	15th Aug. 1861	John Thomas Hutchings.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Toys, &c.—*continued.*			
A new or improved parachute toy - - - (*Communicated by Gustave Tautain.*)	2200	4th Sept. 1861	Richard Archibald Brooman.
Apparatus for projecting cricket balls with accuracy	2765	4th Nov. 1861	John Corbet Anderson.
An improved spinning toy - - - - - (*Communicated by Gustave Xavier Tautain and Louis Alfred Coquet.*)	2820	9th Nov. 1861	Richard Archibald Brooman.
Trays, Dinner Plates, Cups.			
An improvement in dinner plates - - - (*Communicated by William Henry Towers and John Hazard Browning.*)	225	28th Jan. 1861	William Edward Newton.
Manufacture of papier-mâché blank trays - -	851	6th April 1861	Benjamin Knowles.
Improvements in the manufacture of baths and trays and other vessels for photographic purposes, which improvements are also applicable in the manufacture of galvanic battery and other galvanic chambers or cells, and other vessels to contain chemical solutions.	852	6th April 1861	James Knight.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For trays.*)	853	6th April 1861	Thomas Goulston Ghislin.
Improvements in and applicable to the manufacture of slabs, panels and other forms or articles in paper or paper pulp. (*Trays.*)	1213	13th May 1861	James Deakin.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making trays.*)	1446	7th June 1861	Samuel Bennett, junior.
An improvement in plates for the table - - (*Communicated by Victor Antoine Marcelin.*)	2572	16th Oct. 1861	Richard Archibald Brooman.
Construction of dinner plates - - - (*Communicated by Daniel Hartwell Shirley.*)	2839	12th Nov. 1861	Alfred Vincent Newton.
An improved cup or vessel for administering liquids. (*Communicated by Charles Halphen.*)	2946	23rd Nov. 1861	Richard Archibald Brooman.
Turning; Lathes for Turning.			
Machinery for making bullets - - - (*Communicated by Richard Gornall and William John Hooper.*)	552	4th March 1861	William Edward Newton.
Ornamenting porcelain and other earthen-wares and glass. (*Communicated by Samuel Daniel.*)	982	20th April 1861	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TURNING, &c.—*continued.*			
Certain improvements in machines for planing, boring and turning - - - -	1584	20th June 1861	James Fletcher. John William Fuller.
Machinery or apparatus for turning and planing metals, the tool advancing sideways and cutting in an oblique position.	1854	24th July 1861	Joseph Badard.
Turning apparatus for making gas-burners - -	3090	10th Dec. 1861	Hector Alexander.
UMBRELLAS, PARASOLS, UMBRELLA FURNITURE AND COVERS, UMBRELLA STANDS; WALKING-STICKS.			
An improved lock for receiving and securing umbrellas, canes and similar articles.	84	11th Jan. 1861	Alfred Mills Foote.
Manufacture of umbrellas and parasols - -	244	30th Jan. 1861	Arthur Boyle.
Improvements in umbrella and parasol furniture, and in the means or apparatus employed in treating umbrella and parasol furniture, parts of which are also applicable in heating steel wire ribs, rods or tubes for other purposes - - -	277	2nd Feb. 1861	George Holme Spencer. Richard George Cook.
Woven fabrics - - - - - - (*Umbrella covers.*)	462	23rd Feb. 1861	Michael Meyers.
Woven fabrics - - - - - - - (*For umbrella covers.*)	594	9th March 1861	Michael Meyers.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For umbrella and parasol handles, walking sticks, whip sockets, &c.*)	853	6th April 1861	Thomas Goulston Ghislin.
An improvement in the manufacture of umbrellas, parasols and other similar articles.	855	8th April 1861	William Smith.
Umbrellas and parasols - - - -	1153	7th May 1861	James Willis.
Covering or partially covering the sticks and handles of whips and parasols as also various other articles with flock and producing ornamental effects thereon.	1157	8th May 1861	Joseph Pickett.
An improvement or improvements in utilizing waste or defective pieces of tubing made of iron or of other metal or metallic alloy. (*Making ferrules.*)	1446	7th June 1861	Samuel Bennett, junior.
An improvement in the manufacture of umbrellas and parasols.	1517	13th June 1861	Henry Holland.
Umbrellas and parasols - - - - (*Communicated by Pierre Allamagny.*)	1574	19th June 1861	William Clark.
Construction of locks and adaptation thereof to various useful purposes. (*For umbrella stands.*)	1799	17th July 1861	Charles Edward Redfern.
Manufacture of umbrellas and parasols - -	2036	15th Aug. 1861	Spendlove Desborough.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UMBRELLAS, &c.—*continued.*			
Manufacture of ladies' collars, cuffs or other ornamental articles for dress or furniture to imitate such articles made of lace or embroidery. (*Parasol covers.*)	2124	26th Aug. 1861	Auguste Lechêne. Charles Nathan.
An improved umbrella - - - -	2157	30th Aug. 1861	Adrien Jean Daumont.
Parasols and umbrellas - - - - (*Communicated by Mr. Gabriel Emile Charageat.*)	2180	31st Aug. 1861	William Fox.
Improvements in the construction of umbrellas adapted to purposes of self-defence, some of which improvements are also applicable to other purposes.	2431	30th Sept. 1861	Thomas Smith.
An improvement in the manufacture of umbrellas and parasols, and improvements in machinery to be used in the manufacture of umbrellas and parasols. (*Partly communicated by Charles Augustus Van Kirk.*)	2466	3rd Oct. 1861	Thomas Warwick.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed. (*Handles for umbrellas, &c.; walking sticks.*)	2482	4th Oct. 1861	Thomas Goulston Ghislin.
An improvement in umbrellas and parasols - -	2870	14th Nov. 1861	Robert Heath.
An improvement or improvements in attaching name plates or labels to umbrellas, parasols, walking sticks and whips.	3001	28th Nov. 1861	Samuel Alfred Carpenter.
Manufacture of umbrellas and parasols - -	3016	29th Nov. 1861	Richard Cook. George Holme Spencer.
The application of certain electro-deposits to the coating or finishing of the stretchers, ribs and other metal portions of umbrellas and parasols -	3074	7th Dec. 1861	Thomas Fearn. Thomas Cox, junior.
Improvements in umbrellas and parasols - -	3220	24th Dec. 1861	John Francis Harvey.
Improvements in the manufacture of umbrellas and parasols.	3262	31st Dec. 1861	William Tongue.
UPHOLSTERY (*Mattresses, Beds, Cushions, Curtains*); **MATS AND MATTING**; **HASSOCKS.**			
An improved warming hassock or footstool - -	38	5th Jan. 1861	John Roberts.
An improvement in tighteners for the cords of curtains.	413	19th Feb. 1861	Richard Bush Burchell.
Improvements in the manufacture of insulators and other articles in india-rubber which are required to retain a shape once given to them, in curing hard rubber, ebonite or vulcanite goods, in moulding india-rubber articles, in the construction of cellular fabrics in india-rubber, and in forming articles partly of soft and partly of hard rubber or ebonite or vulcanite, and in varnishes for india-rubber goods - - - (*Forming mats.*)	569	6th March 1861	Hugh Adams Silver. Henry Griffin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UPHOLSTERY, &c.—*continued.*			
Mattresses, cushions and such like articles -	801	1st April 1861	Seymour de Sanges.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For matting and mats.*)	853	6th April 1861	Thomas Goulston Ghislin.
Weaving textile fabrics - - - - (*For sacking.*)	887	11th April 1861	David Chalmers.
Improvements in certain kinds of cornice poles and curtain rods, and in the runners used in cornice poles and curtain rods and in the manufacture of tubing to be made into the said cornice poles and curtain rods - - -	993	22nd April 1861	Edward Douglas Bourne. Paul Davis.
Imitation of gold and silver embroidery - - (*To apply to carpets.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
An improvement or improvements in the manufacture of upholsterers' fringes.	1537	15th June 1861	Stephen Barnwell, junior.
Perforated materials in combination with india-rubber. (*For stair carpeting, door mats, &c.*)	1736	9th July 1861	George Seaborn Parkinson.
Manufacture of ladies' collars, cuffs or other ornamental articles for dress or furniture to imitate such articles made of lace or embroidery - (*Window curtains.*)	2124	26th Aug. 1861	Auguste Lechêne. Charles Nathan.
Mattresses formed with springs - - -	2167	30th Aug. 1861	Henry Brand.
Construction of elastic steel mattresses - -	1949	6th Aug. 1861	George Potts.
Manufacture of upholsterers' trimmings - - (*Curtain cords, bell ropes, &c.*)	2285	14th Sept. 1861	George Dixon.
A portable spring bedstead and mattress moveable and fixed, a hammock bed and spring mattress moveable and fixed.	2427	28th Sept. 1861	Joseph Moiroux.
Improvements in porte-robes or dress suspenders, and also in apparatus for the suspension of curtains, draperies and other articles - -	2561	14th Oct. 1861	Benjamin Taylor. Charles Edkins.
An improvement or improvements in the manufacture of pulley rods for curtains, commonly called French pulley rods.	2723	30th Oct. 1861	Robert Walter Winfield.
Treatment of carpets - - - - (*Varnishing the back.*) (*Communicated by Jean Armand Edmond Poloncau.*)	2808	8th Nov. 1861	John Henry Johnson.
Improvements in the manufacture of brushes and in preparing certain vegetable fibres for such and other uses. (*For stuffing furniture.*)	2880	15th Nov. 1861	Werner Staufen.
Textile and felted fabrics - - - (*For carpets.*)	2943	23rd Nov. 1861	Charles Henry Julius William Maximilian Liebmann.
Manufacture of quilts and coverlets - -	3067	7th Dec. 1861	Thomas Lawes.
A new or improved method of ornamenting certain fabrics. (*Harness curtains.*)	3131	13th Dec. 1861	Thomas Bow Gibson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UPHOLSTERY, &c.—*continued.*			
Improvements in the manufacture and application of elastic or yielding surfaces for sitting, lying or reclining upon. (*Cushions, mattresses, &c.*)	3213	21st Dec. 1861	Charles Osman.
Improvements in looms for the manufacture of sacks, knapsacks, mattress cases and other goods. (*Communicated by Charles Hippolyte Tessier.*)	3215	24th Dec. 1861	Louis Rudolph Bodmer.
VALVES, TAPS, STOP-COCKS, PLUGS; REGULATING THE FLOW AND PRESSURE OF FLUIDS.			
An improved slide valve - - - - (*Communicated by Jean Baptiste Edouard Plainemaison.*)	4	1st Jan. 1861	Michael Henry.
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Manufacture of india-rubber applicable to springs, valves for machinery and other purposes.	62	10th Jan. 1861	Stephen Moulton.
Improved apparatus for regulating the flow of gas, part of which is applicable to the valves of steam-engines. (*Communicated by Mr. D. H. Williams.*)	95	12th Jan. 1861	Elijah Freeman Prentiss.
Machinery or apparatus for obtaining motive-power. (*Communicated by Jean Joseph Etienne Lenoir.*)	107	14th Jan. 1861	John Henry Johnson.
Gas regulators - - - - - (*Communicated by John Brunt.*)	110	15th Jan. 1861	Joseph Willcock.
An improved device for balancing slide valves of steam-engines. (*Communicated by Andrew Buchanan and Peter Zeglio.*)	157	19th Jan. 1861	William Clark.
Instruments or apparatus for indicating or measuring the pressure of steam and other fluids.	159	21st Jan. 1861	Charles Edmund Albrecht.
Apparatus for discharging water from steam pipes -	162	21st Jan. 1861	William Pickstone.
An improved induction and eduction valve for steam-engines.) (*Communicated by Thomas Goodrum.*)	186	23rd Jan. 1861	Alexander Prince.
A mode of greasing pistons and slide valves even in course of working applicable to all sorts of machines having the same.	287	4th Feb. 1861	Just Sebastian Larue.
Valves - - - - - - - -	323	8th Feb. 1861	William Morris, junior.
Construction of cocks for drawing off liquids and vapours, and for regulating the flow or passage thereof.	403	19th Feb. 1861	James Bailey Hawkins.
Furnaces - - - - - - - (*Communicated by Jean Gérard Charles Tenbrinck.*)	415	19th Feb. 1861	Michael Henry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
A new or improved tap or stop-cock for liquids, steam and gas. (*Communicated by Joseph Berger.*)	427	21st Feb. 1861	Charles Maschwitz, junior.
Glass water-gauges and pet-taps of steam-boilers -	474	25th Feb. 1861	John Pinchbeck.
An improved apparatus for drawing liquid substances from vessels containing the same.	491	26th Feb. 1861	Robert Tiernan.
Certain improvements in apparatus for lubricating the piston rods, valve rods, pistons and valves of steam-engines, and other rods or shafts to which a to and fro motion is given - -	531	2nd March 1861	John Ellis. John Stringer. John Bradock.
Apparatus for regulating the supply of water to water-closets, and for other purposes where an occasional or intermittent supply is required.	572	6th March 1861	George Eskholme.
Apparatus for lubricating the moving parts of machinery.	608	12th March 1861	Auguste Aerts.
Pumps - - - - - - -	634	14th March 1861	John Hays Wilson.
A self-acting socket for taps, fire-plugs and such like purposes - - - - - -	679	18th March 1861	Charles Clayton. James Breedon. Alfred Schneider.
Gas stop-cocks - - - - - (*Communicated by Messrs. A. Massey, G. Jullien and E. Jullien.*)	707	21st March 1861	Marc Antoine François Mennons.
Improvements in steam-engines and boilers, and in apparatus connected therewith. (*Safety valves.*)	786	30th March 1861	John Cass.
Washing-machines - - - - - (*Tap.*)	798	1st April 1861	George Edmondson.
Improvements in coining-machinery and in apparatus employed for regulating the expansion of elastic fluids.	862	8th April 1861	Henry Wollaston Blake.
Apparatus applicable to steam-boilers and steam-engines.	928	16th April 1861	Samuel Ridge.
Syphons for carrying off the condensed water from steam pipes. (*Or syphon valves.*)	941	17th April 1861	Joseph Vickerman.
Apparatus for aërating liquids - - - - (*Communicated by Jean Auguste Bazet.*)	1012	23rd April 1861	Michael Henry.
Improved hydraulic apparatus - - - -	1151	7th May 1861	François Defaye.
Improved means and apparatus for conducting or forcing the flow of water. (*Vent traps.*) (*Communicated by Charles Douchain.*)	1152	7th May 1861	William Edward Gedge.
Manufacture of gutta-percha and compounds thereof with other matters and substances. (*For valves.*)	1166	8th May 1861	John Rolfe Hunt.
Improvements in working sugar refineries and in sugar moulds and apparatus for trimming the loaves therein. (*Communicated by Jean Baptiste Joseph Quéruel.*)	1228	14th May 1861	Richard Archibald Brooman.
Improvements in apparatuses for containing and drawing off beer and other malt liquor, and in drawing malt liquor from casks.	1230	14th May 1861	Jean Jules Léon Chazaren.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
Improvements in apparatus for the manufacture of aërated waters and in vessels or receptacles for containing the same. (*Safety valves.*) (*Communicated by Jean Louis André and Philippe Ferdinand Guillot.*)	1231	14th May 1861	John Henry Johnson.
Instruments for measuring, indicating and regulating the pressure or flow of fluids.	1366	31st May 1861	Paul Cameron.
Apparatus for regulating the supply of fluids -	1453	7th June 1861	John Farrand Clarke.
Valves for steam and other engines - -	1474	10th June 1861	David Rollo.
Waterclosets and cocks used therewith - -	1570	18th June 1861	John Dixon.
Steam hammers - - - - - -	1601	21st June 1861	William Hobson.
An improved valve to regulate the passage of fluids	1610	22nd June 1861	Robert Russell.
Improvements in cocks or taps for drawing off liquids and in gauging apparatus connected therewith. (*Communicated by Messrs. Auguste Terré and Etienne Morelle.*)	1642	27th June 1861	Marc Antoine François Mennons.
Construction of cocks for drawing off liquids and vapours, and for regulating the flow or passage thereof.	1659	28th June 1861	James Bailey Hawkins.
Fluid meters - - - - - -	1670	1st July 1861	William Dingwall.
Taps or valves - - - - - -	1700	4th July 1861	James Morris Gale. Thomas Kennedy.
Construction of valves - - - -	1754	11th July 1861	Thomas Goode Messenger.
Taps or stop-cocks for liquids, steam and gas - (*Communicated by Joseph Berger.*)	1762	13th July 1861	Charles Maschwitz, junior.
Slide valves - - - - - -	1803	17th July 1861	James Trigwell.
An improved self-acting tap or apparatus for the convenient passage of lighted gas or other illuminating fluid or liquid, and particularly adapted for lighting cigars. (*Communicated by Theodore Byron Hubbell.*)	1909	1st Aug. 1861	Benjamin Browne.
Slide valves to regulate or stop the flow of water, steam or other fluid.	1939	5th Aug. 1861	Hermann Christian Meyer.
Improvements in steam-boilers and in apparatus connected therewith - - - - -	1948	6th Aug. 1861	William Galloway. John Galloway. John William Wilson.
Improvements in apparatus for drawing beer and other liquids from casks and other vessels, and in excluding the air from the liquids in or remaining in the said vessels.	1981	9th Aug. 1861	Albert Julius Mott.
Valves of steam-engines - - - -	2062	20th Aug. 1861	Benjamin Hargreaves. John Hargreaves.
A new or improved tap or stop-cock - - (*Communicated by Allen Hill.*)	2184	2nd Sept. 1861	Thomas Shutt Stock. Joseph Sharp Stock. Henry Taylor.
Apparatus for preventing waste of water from service pipes or cisterns.	2265	12th Sept. 1861	Charles Greaves.
Improvements in concertinas and other musical instruments the tones of which are produced from the vibration of springs.	2289	14th Sept. 1861	William Wheatstone.
Valves of steam and other motive engines - -	2329	18th Sept. 1861	Alfred James Beer.
Taps and cocks - - - - - -	2350	20th Sept. 1861	Brooke Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
Apparatuses for letting off water from and for admitting oil or other lubricating matter into steam cylinders. (*Communicated by Isidore Duballe.*)	2392	25th Sept. 1861	Richard Archibald Brooman.
Apparatus whereby to regulate the passage or flow of gas, water and other fluids.	2426	28th Sept. 1861	Denny Lane.
Certain improvements in steam-engines and in valves for steam and other fluids.	2450	2nd Oct. 1861	James Hesford.
An improved high pressure tap for regulating and controlling the flow of steam, water or other fluids.	2496	5th Oct. 1861	Thomas Hughes.
Construction of organs - - - -	2508	8th Oct. 1861	Henry Willis.
Pumps and stops used for working hydraulic presses	2535	10th Oct. 1861	James Downs.
An improved apparatus for heating the feed water of steam-engines. (*Communicated by Francis Bowes Stevens.*)	2536	10th Oct. 1861	William Edward Newton.
Constructing taps or valves - - -	2567	15th Oct. 1861	William Ross.
Apparatus to be applied to chimneys or flues for improving the draft therein, and for preventing down drafts or the descent of smoke into apartments.	2590	17th Oct. 1861	Robert Aytoun.
Improvements in steam-engines and boilers and in apparatus connected therewith, part of which improvements is also applicable to raising and measuring fluids generally.	2598	18th Oct. 1861	Charles Herbert Holt.
Engines to be propelled by compressed atmospheric air or steam.	2625	21st Oct. 1861	Francis Alton Calvert.
Apparatus for measuring fluids - - -	2635	22nd Oct. 1861	Herbert Frost.
An improved plug and socket or apparatus for closing and opening passages for the flow of liquids and fluids.	2657	23rd Oct. 1861	William Barry Lord.
Construction of taps or cocks - - -	2662	24th Oct. 1861	John Cowpe Heaton. John Dean.
Machinery or apparatus for preparing grain for brewers. ("*Butterfly*" *valve.*)	2710	29th Oct. 1861	Richard Gibbon.
Certain improvements in steam hammers and in valves applicable to the same and to other steam-engines.	2772	5th Nov. 1861	Robert Wilson.
Boring apparatus such as is used for mining purposes.	2813	9th Nov. 1861	George Simpson.
Screw-cocks - - - - -	2862	13th Nov. 1861	Alfred Edwin Carter. Thomas Hack.
Improvements in raising liquids and in apparatus connected therewith, parts of which are applicable to improving the quality of fermented liquors (*Stop valves and vent plugs.*)	2901	19th Nov. 1861	Luke Smith. Matthew Smith.
Equilibrium lubricators for steam cylinders, valve boxes and other similar purposes - -	2905	19th Nov. 1861	John Taylor. Thomas Howard Hepworth.
Improved means of rendering steam-tight the opening for the passage of the piston rod through the cylinder cover in steam-engines, which means are applicable also to other parts of steam-engines and parts of other engines, machines and apparatus for the rendering thereof steam tight and fluid tight. (*Communicated by Francisque Million.*)	2940	22nd Nov. 1861	Michael Henry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
Apparatus for regulating and indicating the speed of steam-engines and other machinery.	2979	27th Nov. 1861	John Standfield.
Cocks or valves for the passage of fluids - -	3006	28th Nov. 1861	Benjamin Pitt. James John Shedlock.
An improved infants' feeding bottle - -	3012	29th Nov. 1861	Robert Crawford Perry.
Pumps - - - - (*Communicated by Calvin Woodward and George Mills Woodward.*)	3041	4th Dec. 1861	William Edward Newton.
Pumps - - - - - -	3048	5th Dec. 1861	John Knowelden.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
Improvements in treating atmospheric air and other elastic fluids for motive-power purposes, and in engines and apparatuses to be employed therewith. (*Communicated by Charles Dickson Archibald.*)	3083	9th Dec. 1861	Richard Archibald Brooman.
Wads for fire-arms - - - - - -	3119	12th Dec. 1861	John William Scott.
Improvements in locomotive engines, parts of which improvements are also applicable to marine and stationary engines.	3120	12th Dec. 1861	Joseph Dominique Jobin.
Improvements in the mode of and apparatus for feeding steam-boilers, also in apparatus for supplying fluids for other purposes, and in apparatus for raising fluids.	3126	13th Dec. 1861	Henry John Olding.
An improved water safety-valve - - -	3148	14th Dec. 1861	William Husband.
A new or improved tap or stop-cock - -	3167	18th Dec. 1861	Samuel Sheppard.
An improved equilibrium valve - - -	3168	18th Dec. 1861	James Perrin.
Improved means for reducing the friction and wear of slide valves of steam-engines. (*Communicated by Andrew Buchanan.*)	3221	24th Dec. 1861	Alfred Vincent Newton.
Certain improvements in cocks or taps for drawing off fluids.	3243	27th Dec. 1861	Thomas William Atlee.
Improvements in ventilators or valves for regulating the passage of air or other fluids whether of a gaseous or liquid form.	3264	31st Dec. 1861	Neil McHaffie.
VASES.			
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*For vases.*) (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Stopping or closing bottles, vases, cans and similar articles whether of glass, metal or other material.	621	13th March 1861	Octave Saulay.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For vases.*)	1269	18th May 1861	Archibald Campbell Ponton.
Hermetically stoppering or covering jars, pots, vases and other like articles - - -	3027	3rd Dec. 1861	André Marie Augustin Pichery. Pierre Louis Danais.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION; SUPPLYING AND PURIFYING AIR FOR BUILDINGS, MINES, SHIPS, CARRIAGES, &c.			
Apparatus for ventilating - - - - (*Buildings, ships, carriages.*)	6	2nd Jan. 1861	William Cooke.
Adaptation of india-rubber and analogus gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Valves for ventilating mines.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
A combined heating and ventilating pipe to be made elliptically or otherwise.	53	9th Jan. 1861	William Taylor.
Chimney and ventilating cowls - - -	133	17th Jan. 1861	George Lewingdon.
Improved apparatus for exhausting and compressing air and producing air blasts. (*Communicated by Frederick William Partz.*)	224	28th Jan. 1861	William Edward Newton.
A new process for impregnating the atmosphere with perfuming or purifying vapours.	378	14th Feb. 1861	Eugene Rimmel.
Hats or coverings for the head - - -	498	26th Feb. 1861	Louis Sideman. Samuel Phillips.
Chimneys - - - - - (*Communicated by Mr. Desanges.*)	503	27th Feb. 1861	Charles Stevens.
An improved apparatus for drawing off smoke and gases.	540	2nd March 1861	Jacques Bernard Chaussenot.
Mode of forming ventilators - - -	630	14th March 1861	Charles Gammon.
Improvements in or connected with ships or vessels	782	30th March 1861	William Simons.
Improvements in the method of and apparatus for preventing the deterioration of grain when deposited in the holds of vessels for shipment, and also in the application of the said method and apparatus to vessels engaged in shipping grain from one port to another.	867	9th April 1861	Henry Griffiths Prossor.
Apparatus for ventilating forges and other overheated workshops.	986	20th April 1861	Aaron Smith.
Ventilating various articles of wearing apparel -	1143	6th May 1861	George Coles. James Archibald Jaques. John Americus Fanshawe. Thomas Galpin.
Construction, ventilation and propulsion of life boats. (*Communicated by John Theodore Scholl.*)	1205	11th May 1861	William Clark.
Apparatus for ventilating dwelling rooms and other places, and for removing foul or noxious air therefrom.	1308	23rd May 1861	William Tebbutt.
Mode of and apparatus for warming and ventilating rooms and buildings.	1314	24th May 1861	Charles Batty.
Machinery for tunnelling and driving galleries through rock and other strata.	1386	3rd June 1861	Herbert Newton Penrice.
Apparatus for creating or increasing air draughts in flues or other channels for ventilation and other purposes.	1435	6th June 1861	Edward Hewett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION, &c.—*continued.*			
Improvements in arranging sizing-houses, brew-houses, dye houses and other houses and chambers, to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Apparatus for ventilating furnaces, drying rooms, stables, kitchens and other places.	1586	20th June 1861	Michel François Antoine Thibault de Menonville.
Window-frames and blinds - - -	1627	25th June 1861	John Brown.
Ventilating apparatus - - - -	1629	26th June 1861	Stephen Wenton.
Chimney tops and ventilators - - -	1645	27th June 1861	Henry Hamer.
An improved smoke consumer and condenser suitable for factories, railway engines, steam ships, furnaces, brick kilns, cinder ovens, bakehouses and other purposes, namely, ventilation of factories, houses of parliament, places of public worship, public institutions, dwelling houses, streets, coal mines, railway tunnels, mineral mines, iron works.	1760	13th July 1861	George Rydill.
Stacking corn and other crops - - - -	1786	16th July 1861	John Goucher.
Certain improvements in boots and shoes or other coverings for the feet.	1828	20th July 1861	Moses Gilbert.
Arrangements in buildings and ships with a view to the extinguishment of accidental fire therein and also the ventilation thereof.	1841	22nd July 1861	Joseph Beattie.
Apparatus for ventilating - - - - -	2026	14th Aug. 1861	William Wilds.
Ventilating - - - - - - -	2055	19th Aug. 1861	John Robb.
Improvements in the construction of conservatories, orchard houses and other horticultural erections, which improvements are also applicable to the covering of areas such as are used for drill sheds, markets, railway sheds, colonists' and army huts and many other similar purposes.	2117	24th Aug. 1861	James Cranston.
Heating and ventilating especially applicable to Turkish baths.	2120	26th Aug. 1861	Robert Watkin Jones.
Improvements in glazing horticultural buildings, the roofs of railway stations and other erections.	2235	6th Sept. 1861	Thomas Goode Messenger
Improvements in the construction of and appliances to steam ships or other vessels - - (*Ventilating.*)	2343	19th Sept. 1861	Thomas Silver. Thomas Moore.
Improvements in gaseliers and in ventilating apparatus connected therewith.	2361	21st Sept. 1861	Louis Rudolph Bodmer.
Chimney hoods and ventilators - - -	2436	30th Sept. 1861	Charles Hill Pennycook.
An improved chimney top, cap or cowl for the prevention of the descent of sooty exhalations, curing of smoky chimneys, and ventilation of apartments.	2518	9th Oct. 1861	James Walker.
Hats and caps - - - - -	2548	12th Oct. 1861	Samuel Ratcliffe Carrington.
Ventilating rooms and buildings - - -	2615	19th Oct. 1861	John Wainwright.
Manufacture of elastic fabrics - - - (*Ventilating.*)	2779	5th Nov. 1861	Edward Bowra.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION, &c.—*continued.*			
Improvements in the construction of carriages and vehicles, and in the means of ventilating the same, this part of the invention being applicable also to windows generally and other such openings.	2838	12th Nov. 1861	William Cooke.
Apparatus for sounding alarums and actuating ventilators.	2872	14th Nov. 1861	George Hawksley.
Ventilators for railway and other carriages and for other similar purposes.	2874	15th Nov. 1861	Charles Henry Minchin.
Apparatus for ventilating coal or other mines or other underground excavation.	2875	15th Nov. 1861	John Nixon.
An improved Cornish or other steam-boiler with smoke consumer and condenser, being also applicable for ventilation.	2882	27th Nov. 1861	George Rydill.
Ventilators - - - - - - -	2885	27th Nov. 1861	Amos Whibley. Thomas Lumley.
Method of and apparatus for drying and cleansing malt as well as any other species of grain and seed intended for brewing, distilling and agricultural purposes. (*Using centrifugal force for the ventilation.*)	3118	12th Dec. 1861	Augustus Tounar.
Improvements in ventilators or valves for regulating the passage of air or other fluids whether of a gaseous or liquid form.	3264	31st Dec. 1861	Neil McHaffie.
VICES, SPANNERS, SCREW-WRENCHES, SCREW JACKS.			
Manufacture of vices - - - -	623	13th March 1861	James Wood Aston.
Improved apparatus for drawing bolts - - (*Communicated by Hamilton Towle.*)	875	9th April 1861	William Edward Newton.
Vices and screw benches - - - -	1323	25th May 1861	William Roberts.
An improvement or improvements in moveable spanners or screw wrenches.	1718	6th July 1861	Thomas Wilson.
Screw-wrenches or spanners - - -	2248	9th Sept. 1861	Patrick Benignus O'Neill.
Manufacture of vice boxes - - - -	2294	14th Sept. 1861	Alfred Green. William Henry Glover.
Screw-wrenches - - - - -	2583	17th Oct. 1861	William Thomas Weston.
Jack machinery for moving heavy bodies - - (*Communicated by Félix Winand.*)	3101	11th Dec. 1861	Marc Antoine François Mennons.
WASHING, CLEANSING AND WRINGING FABRICS, YARNS AND MATERIALS; LAVATORIES.			
Apparatus for washing and churning - -	142	18th Jan. 1861	Robert Mason.
Machines for washing, rinsing and blueing cloths, fabrics, yarns and similar articles.	210	26th Jan. 1861	Thomas Bradford.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WASHING, &c.—*continued.*			
Improved apparatus applicable for washing and churning.	211	26th Jan. 1861	Frederick William Webster.
Improvements in commodes or closets and in bathing, washing and other sanatory apparatus	526	1st March 1861	George Smith. James Carrick.
The manufacture of paper, linen, cotton or other fabrics prepared with a preparation of blue, to be used for the purpose of washing or other purposes.	740	25th March 1861	William Edward Manby.
Washing, wringing and mangling machines, applicable also for dyeing or bleaching purposes, to be called "The Nottingham washing-machine"	787	30th March 1861	George Barton. Thomas Soar
Washing-machines	798	1st April 1861	George Edmondson.
An improved washing-machine	861	8th April 1861	Andrew Shanks.
Machinery for the manufacture of paper (*Apparatus for washing rags.*)	1057	26th April 1861	Edmund Hamborough Joynson.
Machinery for washing fabrics and for churning	1120	4th May 1861	William Addy.
Improvements in machinery or apparatus for drying textile fabrics and materials, which improvements are also applicable in scouring or dyeing of the said materials.	1235	15th May 1861	Joseph Wooller.
Washing, wringing and mangling machines	1284	20th May 1861	William Parkinson.
An improved apparatus to be used in washing clothes and other articles.	1404	4th June 1861	Anson Hubbell.
An improved washing-machine	1480	10th June 1861	John Langdale, junior.
Washing-machines	1551	17th June 1861	John Perry.
Machinery or apparatus for washing and drying wool, cotton and other fibrous materials requiring similar treatment.	1694	4th July 1861	John Petrie, junior.
Washing, wringing and mangling machines	1699	4th July 1861	Richard Mills.
Machinery for washing, wringing, mangling and churning.	1731	8th July 1861	Richard Hornsby, junior.
Apparatus for washing, cleansing, scouring, getting up, dyeing, boiling and steaming.	1755	11th July 1861	Henry Ashwell.
Washing, churning, wringing and mangling machines.	1897	30th July 1861	Thomas Bradford.
Machinery or apparatus for washing clothes and other textile articles.	1914	1st Aug. 1861	Edward James Muygridge.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Improvements in the material and preparation of the material and apparatus for making potash, pearlash and caustic potash of commerce. (*Wash-pans.*)	2238	7th Sept. 1861	Nicholas Doran Proby Maillard.
An improved centrifugal apparatus intended for purifying, washing, drying, moulding or extracting from liquids, substances or materials of various kinds which are deposited or poured for this purpose in moveable baskets or boxes fitted in the said apparatus. (*For laundries.*)	2333	19th Sept. 1861	Louis Gabriel Auguste Condroy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WASHING, &c.—*continued.*			
Washing and scouring wool by the introduction of air into the water, using an aëriform washing apparatus.	2371	23rd Sept. 1861	Hippolyte Plantrou, junior.
An improved material particularly adapted for the scouring, cleansing and fulling of woollen or other cloths.	2384	24th Sept. 1861	James Fawcett.
Machinery or apparatus for washing fabrics, yarns, wool, clothes and other similar articles.	2634	21st Oct. 1861	William Connell.
Improvements in preparing blue colour and in apparatus for applying such colour to water. (*For laundry purposes.*)	2700	28th Oct. 1861	George Mowbray Gilbert.
An improved washing apparatus - - -	2888	16th Nov. 1861	Joseph Else. Thomas Godfrey.
Wringing-machines - - - - - (*Communicated by Francis Adams Cushman.*)	3010	29th Nov. 1861	Augustus Bryant Childs.
Treatment and application to various useful purposes of light spirituous liquids. (*As detergents in cleansing silks, &c.*)	3175	18th Dec. 1861	Charles Edward Symonds.
An improved composition for cleaning and revivifying woollen cloths and other fabrics and the colours thereof. (*See* "FINISHING.") (*Communicated by Alfred Thomas.*)	3199	20th Dec. 1861	Eugène Etienne Pereau.
For Washing Ores, *see* "METALS." *For* Washing Bottles, *see* "BOTTLES."			
WATER-CLOSETS, URINALS AND COMMODES.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - (*Flexible joints for water-closets.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Improvements in urinals and in the manufacture of manure when urine is used - - -	249	30th Jan. 1861	Henry Phillips. James Bannehr.
Improvements in commodes or closets and in bathing, washing and other sanatory apparatus -	526	1st March 1861	George Smith. James Carrick.
Apparatus for regulating the supply of water to water-closets and for other purposes where an occasional or intermittent supply is required.	572	6th March 1861	George Eskholme.
Apparatus for receiving, drying, and deodorizing human excrement.	878	9th April 1861	Francis Taylor.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For soil pipes.*)	1269	18th May 1861	Archibald Campbell Ponton.
Water-closets and cocks used therewith - -	1570	18th June 1861	John Dixon.
Apparatus for supplying water to water-closets -	1730	8th July 1861	Frederick Warner. Thomas Clark.
Apparatus applicable to water-closets and urinals -	2014	13th Aug. 1861	Nicholas Common.
Stench traps - - - - -	2554	12th Oct. 1861	Matthew Cartwright.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERING, SUPPLYING AND DISTRIBUTING WATER; FOUNTAINS.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - - (*Lift pumps for water works.*)	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Apparatus for filtering - - - - - (*Flushing the apparatus.*)	170	22nd Jan. 1861	William Cooke.
Irrigating or self-supplying water brushes, brooms and sponges. (*Communicated by Mr. J. Lemoine.*)	733	23rd March 1861	George John Baptist Loyer.
Arrangements or apparatus for preventing water pipes from bursting by the action of frost.	1026	24th April 1861	Daniel Stone.
Portable fountains - - - - - -	1032	25th April 1861	George Bartholomew. William Bissett.
Improved means and apparatus for conducting or forcing the flow of water. (*To cleanse conduits.*) (*Communicated by Charles Douchain.*)	1152	7th May 1861	William Edward Gedge.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*For fountains.*)	1269	18th May 1861	Archibald Campbell Ponton.
Improvements in beams and girders and in applying the same in buildings. (*Made hollow for conveying water.*)	1839	22nd July 1861	William Hood.
Apparatus for protecting and arranging water pipes and withdrawing water therefrom and preventing injury thereto by frost - - -	1927	3rd Aug. 1861	George Fowler Jones. James Jones.
Improvements in apparatus for drilling and tapping gas and water mains and pipes, and in preventing leakage therefrom.	2071	20th Aug. 1861	John Somerville.
Apparatus for preventing waste of water from service pipes or cisterns.	2265	12th Sept. 1861	Charles Greaves.
A new system of cultivating land and for preventing the disastrous effects of inundations.	2318	17th Sept. 1861	Frederick James Eugène Alexander Gigault D'Olincourt.
Means or apparatus for raising water or other fluids. (*For irrigation, supplying houses, &c.*)	2714	29th Oct. 1861	John Hayward.
Improvements applicable to buildings in order to facilitate the extinguishing of any conflagration which may happen therein. (*Conveying water into rooms.*)	2916	20th Nov. 1861	William Podmore Bayliss.
An improved system of drainage and irrigation for meadow and other land.	3171	18th Dec. 1861	Asmus Petersen.

See also "VALVES."
For Water Pipes, *see* "PIPES."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERPROOFING AND FIREPROOFING; WATERPROOF AND FIREPROOF FABRICS; COMPOSITIONS FOR WATERPROOFING, &c.			
Tobacco pouches, purses and other such like receptacles - - - - - -	222	28th Jan. 1861	Frederick Henry Twilley. Albert Romer.
An improved glue or composition suitable for covering the caulking of ships and other like purposes, for uniting wood and other substances, for filling up seams, and for use as a waterproof glue or composition generally.	513	28th Feb. 1861	William John Hay.
Improvements in preparing fabrics to render them suitable for packing goods, and in closing or sealing packages.	815	2nd April 1861	James Brown.
Sizing or preparing paper and textile fabrics in order to render them waterproof and to increase the strength thereof. (*Communicated by Leon Bertin and Pierre Carteron.*)	895	11th April 1861	Richard Archibald Brooman.
Gloves - - - - - - -	958	18th April 1861	Mary Buchanan.
Certain new chemical combinations and for the application thereof to fixing aniline and pigment colours in printing and dyeing, to tanning, waterproofing and other industrial purposes. (*Communicated by Doctor Francis Leopold Sonnenschein.*)	1079	30th April 1861	Jacques Meyer.
Combining together siliceous powder into solid masses of any form by means of sulphur, and which combination he calls siliceous stone-ware. (*As an air and waterproof covering.*)	1269	18th May 1861	Archibald Campbell Ponton.
Improvements in the construction and internal arrangement of furnaces and in the preparation, manufacture and treatment of clays and of articles, surfaces, structures and erections subject to the action of fire or atmospheric influence -	1344	29th May 1861	Thomas Hale. Arthur Wall.
Treatment of fatty and oily matters - - (*Obtaining a substance to waterproof clothing, paper, &c.*)	1410	4th June 1861	Heinrich Ludwig Buff.
An improved boot or shoe with leather "uppers" and india-rubber soles.	1433	6th June 1861	Benjamin D. Godfrey.
An improved impermeable varnish for leather - (*Communicated by Joseph Chapa and Ernest Lacaze.*)	1489	11th June 1861	Charles Stevens.
Manufacture of waterproof felt - - -	1651	28th June 1861	Alfred Ford.
An improved mixture or liquid for extinguishing fire, applicable also for preparing or saturating various kinds of materials and fabrics for the purpose of rendering the same non-inflammable.	1709	5th July 1861	Osmund Williams.
An improved process for preserving and indurating timber, wood and other vegetabe matters, and for rendering the same uninflammable.	1773	15th July 1861	Thomas Cobley.
Improvements in the construction of buildings to enable them to withstand the destructive action of fire.	1870	25th July 1861	James Simmons.
Manufacture of varnishes applicable to the waterproofing and coating of fabrics and other uses -	2440	30th Sept. 1861	Frederick Walton. Richard Beard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERPROOFING, &c.—*continued.*			
Rendering columns, girders, doors, shutters and other parts of buildings fire-proof.	2449	1st Oct. 1861	William Stratford Hogg.
An improved method of forming waterproof fabrics by combining paper with woven or spun fabrics.	2506	8th Oct. 1861	Alfred Ford.
Constructing fireproof doors and window shutters -	2509	8th Oct. 1861	George Glover.
Manufacture of cartridges - - - - - (*Communicated by Algernon Johnston and Lorenzo Dow.*)	2601	18th Oct. 1861	Patrick Robertson.
Improvements in the preservation of stone, brick and other such materials used in building, applicable also to the waterproofing of walls.	2694	26th Oct. 1861	William Smith.
Preparing and treating gutta-percha and india-rubber.	2800	7th Nov. 1861	William Albert Shepard.
Treatment of carpets - - - - - - (*Communicated by Jean Armand Edmond Poloncau.*)	2808	8th Nov. 1861	John Henry Johnson.
A new or improved method of preparing silk fabrics to be employed in the manufacture of hats, caps and bonnets. (*Communicated by Louis Bayard.*)	3168	20th Dec. 1861	Richard Archibald Brooman.
An improved composition or improved compositions suitable for painting, varnishing and coating.	3247	27th Dec. 1861	Jean Joseph Hector Fajole. Pascal Achille Agostini.
WATERWHEELS AND ENGINES; HYDRAULIC MOTIVE-POWER.			
Adaptation of india-rubber and analogous gums and compounds thereof to valves, pump buckets, packing and other parts of steam, water, air and gas engines and apparatus - - - -	14	3rd Jan. 1861	William Coles Fuller. James Archibald Jaques. John Americus Fanshawe.
Obtaining motive-power - - - - - (*Communicated by Monsieur Main-Guillon.*)	31	5th Jan. 1861	William Edward Gedge.
Rotary engines applicable to be worked by water, steam, or other fluids, also to be used as a means of raising and forcing fluids. (*Communicated by William Kennish.*)	57	9th Jan. 1861	Charles Sorby Dawson.
An improved construction of motive-power engine - (*Communicated by W. H. C. Voss.*)	272	1st Feb. 1861	Alfred Vincent Newton.
Improvements in obtaining and applying motive-power by water and in apparatus connected therewith.	406	19th Feb. 1861	Thomas Pedrick.
A rotatory cone being a new application of the centrifugal force to the purpose of raising and propelling fluid bodies.	857	8th April 1861	Hyacynthe Deheselle.
Improved arrangement of engine for obtaining and applying motive-power - - - - -	922	15th April 1861	James Smith. Sydney Arthur Chease.
Machinery or apparatus for the manufacture of sugar. (*Water-wheel.*)	1095	2nd May 1861	John Charles Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERWHEELS, &c.—*continued.*			
Obtaining motive-power - - - - (*By water.*)	1105	2nd May 1861	Joseph George Brown.
Improved hydraulic apparatus - - - (*See* "VALVES.")	1151	7th May 1861	François Defaye.
Obtaining and applying motive-power by aëro-hydraulic means.	1224	14th May 1861	Thomas Charles Boutet.
Apparatus for raising water and other fluids, which same apparatus may also be employed as a prime mover.	1327	27th May 1861	Thomas Moore.
Obtaining motive-power - - - - (*Communicated by Monsieur Main-Guillon.*)	1710	5th July 1861	William Edward Gedge.
Self-acting and inexhaustible hydraulic and atmospheric motive-power engines.	1969	8th Aug. 1861	Nicholas Doran Proby Maillard.
Obtaining and applying water motive-power -	2061	19th Aug. 1861	Thomas Pedrick.
Improvements in the application of the Archimedean screw to the production and transmission of motive-power, and in the apparatus connected therewith. (*Communicated by Julius Sturm, C.E.*)	2224	6th Sept. 1861	Marc Antoine François Mennons.
Engines or apparatus for obtaining the motive-power of steam, water, air, gas or fluids.	2457	2nd Oct. 1861	John Ambrose Coffey.
A new mode of and apparatus for producing and obtaining an hydro-pneumatic motive-power.	2696	28th Oct. 1861	Bartolomeo Predavalle.
Improvements in obtaining and applying motive steam and liquid power, and in apparatus connected therewith.	2953	25th Nov. 1861	John Macintosh.
Supplying water to water wheels - - -	3156	16th Dec. 1861	John Aitken.
See also "GOVERNORS."			
WEARING-APPAREL, KNAPSACKS, MILITARY ACCOUTREMENTS; TAILORS' TRIMMINGS; HEATING TAILORS' IRONS.			
An improved combined garment for gentlemen's wear - - - - - - -	223	28th Jan. 1861	Gustave Adolph Rothholz. Morris Rosenthall.
Certain applications of chapapote and its products, and of the same combined with other substances, and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Slings or straps adapted for knapsacks, wallets, game bags and other such like uses.	357	12th Feb. 1861	Charles Prater.
Accoutrements of horse soldiers' and other saddles. (*See* "HARNESS.")	517	28th Feb. 1861	Thomas Newton.
Woven fabrics - - - - - (*For wearing apparel.*)	594	9th March 1861	Michael Meyers.
Manufacture of hats, bonnets, waistcoats and trimmings for wearing-apparel.	648	15th March 1861	Arthur Granger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEARING-APPAREL, &c.—*continued.*			
Construction of swivels, hooks or other similar connecting instruments for chains, jewellery and other articles. (*For knapsacks, &c.*)	869	9th April 1861	Charles Gill.
New or improved fastenings for fastening bands and belts and articles of dress, and for such other purposes as the same are or may be applicable to. (*See* "BUTTONS.")	878	10th April 1861	Thomas Aldridge Weston
Imitation of gold and silver embroidery - - (*To apply to stage dresses.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Manufacture of trimmings - - - - (*Communicated by James Wilcox and Hector Tyndale.*)	1116	3rd May 1861	Alexander Wight.
Ventilating various articles of wearing-apparel -	1143	6th May 1861	George Coles. James Archibald Jaques. John Americus Fanshawe. Thomas Galpin.
An improved means of or apparatus for supporting knapsacks and packs.	1400	4th June 1861	William Reynolds Floyd.
Improvements in heating cylinder irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated irons are ordinarily used, and in apparatus connected therewith - - - - -	1801	17th July 1861	Sir John Hare, *Knight.* Barnabas Russ.
Method of fastening shoes, stays, gloves and other wearing-apparel.	1875	26th July 1861	Félicité Noëmi Thurel.
An improved Inverness cape - - -	2149	29th Aug. 1861	John Harding.
An improvement in the ornamentation of woven and other fabrics for garments and parts of garments.	2170	31st Aug. 1861	Henry Keach.
Knapsacks - - - - - - (*Communicated by Charles Sweney.*)	2406	26th Sept. 1861	George Tomlinson Bousfield.
Machinery or apparatus for the manufacture of elastic surgical stockings, socks, knee caps, belts, bands or other articles.	2709	29th Oct. 1861	William Savile.
Manufacture of woven fabrics - - - (*Gentlemen's outer clothing.*)	2717	30th Oct. 1861	Richard Rowntree Priestley
An improved fastening for buttons, studs, solitaires, brooches, civil and military decorations and other like articles.	2730	30th Oct. 1861	Edward Watson.
An improved gaiter or covering for the leg - -	2812	9th Nov. 1861	Mark Morgan.
Improvements in the making or manufacturing of certain parts of garments for either sex, likewise in the manner of preparing the same for sale, as also an improved button to be attached to garments without sewing. (*Linings.*)	2890	18th Nov. 1861	James Moore Clements.
Manufacture of collars, shirt fronts, cuffs, hats, bonnets, vests and other articles of wearing-apparel.	2923	21st Nov. 1861	James Harrow Jeffs.
Knapsacks - - - - - - (*Communicated by Joseph Short.*)	3068	10th Dec. 1861	William Edward Newton.
Garments for gentlemen and ladies' wear - -	3069	10th Dec. 1861	David Vogl.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEARING-APPAREL, &c.—*continued.*			
Improvements in looms for the manufacture of sacks, knapsacks, mattress cases and other goods. (*Pantaloons, &c.*) (*Communicated by Charles Hippolyte Tessier.*)	3215	24th Dec. 1861	Louis Rudolph Bodmer.
See also "BOOTS." "GLOVES." "HATS." "SHIRTS." "PETTICOATS."			
WEAVING, BRAIDING, PLATTING; PREPARING FOR WEAVING.			
I.—Sizing, Warping, Beaming and Preparing Yarns for Weaving.			
An improvement or improvements in apparatus for preparing warps for the loom.	141	18th Jan. 1861	Isaac Bates.
An improved warping and beaming mill - - (*Communicated by Mr. Caspar Honegger.*)	169	22nd Jan. 1861	George White.
Preparing warps for the manufacture of elastic fabrics.	414	19th Feb. 1861	Archibald Turner.
Improvements in warping, dressing and finishing threads, and in apparatus for the same. (*Communicated by Mr. Eugène Lebée.*)	584	7th March 1861	William Clark.
Improvements in machinery or apparatus for warping cotton, worsted and other similar materials, and in expanding combs used in connection therewith, and also in springs used in the manufacture of the said combs, which springs are applicable to other purposes - - -	1134	6th May 1861	Thomas Blackburn. Mark Knowles.
Sizing, drying and warping yarns for weaving -	1286	20th May 1861	George Edmond Donisthorpe.
Machinery or apparatus for sizing warps or yarns -	1395	4th June 1861	Stephen Hargreaves. Robert Holden. Henry Holt.
Improvements in arranging sizing-houses, brew-houses, dye-houses and other houses and chambers to facilitate the removal of steam set free therein, also in the construction of troughs for sizing cotton warps, and in boxes or other receivers for holding such sized cotton warps.	1520	13th June 1861	Jonas Illingworth.
Treatment of yarns or warps previous to their being sized.	2372	23rd Sept. 1861	Jabez Kenyon.
Improvements in the manufacture of paste which is also applicable for sizing purposes.	2930	22nd Nov. 1861	William Hirst.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam engines, and for an improved steam trap. (*Steam trap for tape legs.*)	3235	26th Dec. 1861	Richard Needham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
II. — Weaving Plain, Figured and Double Fabrics; Jacquards and Looms; Woven Fabrics.			
Looms for weaving	87	11th Jan. 1861	Matthew Andrew Muir. James McIlwham.
Looms for weaving	88	12th Jan. 1861	William Bullough.
An improved mode of manufacturing fabrics for useful and ornamental purposes. (*See* "CEMENTED FABRICS.")	168	22nd Jan. 1861	Christopher Duckworth.
Improvements in the double lift jacquard machine as applicable to power looms.	200	25th Jan. 1861	Gaylard Hadwen.
Certain improvements in jacquard machines	245	30th Jan. 1861	William Archer.
Improvements in the manufacture of woven fabrics and in the machinery employed therein. (*Communicated by Monsieur Eugène Mouline.*)	278	2nd Feb. 1861	Edward Thomas Hughes.
Manufacture of woven fabrics (*In place of flannel.*)	290	4th Feb. 1861	Auguste Edouard Chasteau De Balyon.
Looms	301	5th Feb. 1861	John Leeming.
An improvement in or addition to brocaded silk fabrics.	318	8th Feb. 1861	Benjamin Peake.
Looms for weaving (*Communicated by Monsieur François Postel.*)	386	15th Feb. 1861	Adolphe Lecat.
Looms for weaving	387	15th Feb. 1861	Allen Senior.
Weaving	393	16th Feb. 1861	Louis Henri Réal.
An improved method of unhooking in jacquard machines. (*Communicated by Stefano Pettaluga.*)	457	23rd Feb. 1861	Charles Stevens.
Woven fabrics	462	23rd Feb. 1861	Michael Meyers.
Jacquard engines	478	25th Feb. 1861	James Leeming.
An improvement in the manufacture of flannel (*See* "SPINNING.")	495	26th Feb. 1861	John Thomson Pagan. Thomas Benjamin Willans.
Certain improvements in power looms for weaving	501	27th Feb. 1861	William Hudson. Christopher Catlow.
Manufacture and renovation of woven fabrics (*See* "FULLING.")	518	28th Feb. 1861	Charles Beslay.
Apparatus for weaving	541	2nd March 1861	Sebastiano Botturi, commonly called Sebastien Botturi.
Looms for weaving	548	4th March 1861	Robert Murphy.
A method of simultaneously marking and piercing or perforating plates of metal, card board, paper and other material employed in looms for weaving figured fabrics. (*Communicated by Michel Alcan.*)	561	5th March 1861	Emile Alcan.
Woven fabrics (*See* "FIBRES.")	594	9th March 1861	Michael Meyers.
Means or apparatus employed in weaving	604	11th March 1861	John Hirst, junior. James Hollingworth.
An improved regulator for looms (*See* "SPINNING.") (*Communicated by Jean Jacques Moeckel.*)	645	15th March 1861	Charles Stevens.
Improvements in looms and in apparatus connected therewith.	664	16th March 1861	John Holden.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEARING-APPAREL, &c.—*continued.*			
Improvements in looms for the manufacture of sacks, knapsacks, mattress cases and other goods. (*Pantaloons, &c.*) (*Communicated by Charles Hippolyte Tessier.*)	3215	24th Dec. 1861	Louis Rudolph Bodmer.
See also "BOOTS." "GLOVES." "HATS." "SHIRTS." "PETTICOATS."			
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An improved warping and beaming mill - - (*Communicated by Mr. Caspar Honegger.*)	169	22nd Jan. 1861	George White.
Preparing warps for the manufacture of elastic fabrics.	414	19th Feb. 1861	Archibald Turner.
Improvements in warping, dressing and finishing threads, and in apparatus for the same. (*Communicated by Mr. Eugène Lebée.*)	584	7th March 1861	William Clark.
Improvements in machinery or apparatus for warping cotton, worsted and other similar materials, and in expanding combs used in connection therewith, and also in springs used in the manufacture of the said combs, which springs are applicable to other purposes - - -	1134	6th May 1861	Thomas Blackburn. Mark Knowles.
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Treatment of yarns or warps previous to their being sized.	2372	23rd Sept. 1861	Jabez Kenyon.
Improvements in the manufacture of paste which is also applicable for sizing purposes.	2930	22nd Nov. 1861	William Hirst.
Improvements in apparatus for cleansing steam-boilers and lubricating the pistons of steam engines, and for an improved steam trap. (*Steam trap for tape legs.*)	3235	26th Dec. 1861	Richard Needham.

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Looms for weaving	87	11th Jan. 1861	Matthew Andrew Muir. James McIlwham.
Looms for weaving	88	12th Jan. 1861	William Bullough.
An improved mode of manufacturing fabrics for useful and ornamental purposes. (*See* "CEMENTED FABRICS.")	168	22nd Jan. 1861	Christopher Duckworth.
Improvements in the double lift jacquard machine as applicable to power looms.	200	25th Jan. 1861	Gaylard Hadwen.
Certain improvements in jacquard machines	245	30th Jan. 1861	William Archer.
Improvements in the manufacture of woven fabrics and in the machinery employed therein. (*Communicated by Monsieur Eugène Mouline.*)	278	2nd Feb. 1861	Edward Thomas Hughes.
Manufacture of woven fabrics (*In place of flannel.*)	290	4th Feb. 1861	Auguste Edouard Chasteau De Balyon.
Looms	301	5th Feb. 1861	John Leeming.
An improvement in or addition to brocaded silk fabrics.	318	8th Feb. 1861	Benjamin Peake.
Looms for weaving (*Communicated by Monsieur François Postel.*)	386	15th Feb. 1861	Adolphe Lecat.
Looms for weaving	387	15th Feb. 1861	Allen Senior.
Weaving	393	16th Feb. 1861	Louis Henri Réal.
An improved method of unhooking in jacquard machines. (*Communicated by Stefano Pettaluga.*)	457	23rd Feb. 1861	Charles Stevens.
Woven fabrics	462	23rd Feb. 1861	Michael Meyers.
Jacquard engines	478	25th Feb. 1861	James Leeming.
An improvement in the manufacture of flannel (*See* "SPINNING.")	495	26th Feb. 1861	John Thomson Pagan. Thomas Benjamin Willans.
Certain improvements in power looms for weaving	501	27th Feb. 1861	William Hudson. Christopher Catlow.
Manufacture and renovation of woven fabrics (*See* "FULLING.")	518	28th Feb. 1861	Charles Beslay.
Apparatus for weaving	541	2nd March 1861	Sebastiano Botturi, commonly called Sebastien Botturi.
Looms for weaving	548	4th March 1861	Robert Murphy.
A method of simultaneously marking and piercing or perforating plates of metal, card board, paper and other material employed in looms for weaving figured fabrics. (*Communicated by Michel Alcan.*)	561	5th March 1861	Emile Alcan.
Woven fabrics (*See* "FIBRES.")	594	9th March 1861	Michael Meyers.
Means or apparatus employed in weaving	604	11th March 1861	John Hirst, junior. James Hollingworth.
An improved regulator for looms (*See* "SPINNING.") (*Communicated by Jean Jacques Moeckel.*)	645	15th March 1861	Charles Stevens.
Improvements in looms and in apparatus connected therewith.	664	16th March 1861	John Holden.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Looms for weaving	720	22nd March 1861	Thomas Hindle.
Improvements in power looms for weaving check patterns and in connecting-rods for power looms.	729	22nd March 1861	Abraham Haley.
Improvements in looms for weaving figured fabrics and in apparatus connected therewith. (*Communicated by Samuel Thomes Thomas.*)	854	6th April 1861	John Henry Johnson.
An improvement in the manufacture of "card cloth" used for carding cotton, wool and other fibrous substances	860	8th April 1861	Joseph Walker. James Barnes.
Weaving textile fabrics	887	11th April 1861	David Chalmers.
Looms for weaving	936	16th April 1861	David Chalmers.
Manufacture of woven fabrics applicable to crinoline skirts and petticoats or other similar articles.	963	19th April 1861	James Makinson Brierley.
Looms for weaving	973	19th April 1861	William Hudson. Christopher Catlow.
Looms for weaving stays or corsets and other similar articles. (*Communicated by Alexis Manigot.*)	1003	23rd April 1861	William Clark.
An improved thread for weaving and other uses (*See* "THREADS.") (*Communicated by Charles Lewandoski.*)	1124	4th May 1861	Richard Archibald Brooman.
Looms for weaving	1158	8th May 1861	Thomas Blackburn. Mark Knowles.
Manufacture of cards for jacquard weaving (*Communicated by Louis Joseph Fillion.*)	1174	9th May 1861	John Stewart.
Looms for weaving	1208	13th May 1861	Robert Heaton. James Stocks.
Improvements in looms for weaving and in apparatus connected therewith	1225	14th May 1861	James Bullough. John Bullough.
Construction of power looms (*Communicated by Mr. François Loret Vermeersch.*)	1255	16th May 1861	Bernard Hudson.
Manufacture of elastic fabrics	1264	17th May 1861	Archibald Turner.
Certain improvements in looms for weaving (*Communicated by Hyppolite Victor Hermite.*)	1290	21st May 1861	Henry Bernoulli Barlow.
Looms for weaving	1326	27th May 1861	William Smith. James Lord. Henry Barlow.
Improvements in the manufacture of shirt fronts and in producing fabrics or materials for the same. (*Communicated by Jean Henri Albigès.*)	1357	31st May 1861	Michael Henry.
Looms for weaving	1358	31st May 1861	William Hunter.
Machinery or apparatus for cutting or dividing metal or other sheets or plates. (*Jacquard cards.*)	1371	1st June 1861	Thomas Coradine.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Looms for weaving	1447	7th June 1861	William Wood.
Certain improvements in looms for weaving	1470	10th June 1861	James Whitehead.
Machinery for manufacturing looped fabrics	1495	11th June 1861	Robert Walker Smith. Daniel Scattergood.
Certain improvements in power looms for weaving	1552	17th June 1861	William Todd. Jacob Todd.
Improvements in jacquard machines with the object of allowing the substitution of endless paper in lieu of the pasteboard pattern cards hitherto used therein, and in machines for perforating the said paper	1677	2nd July 1861	Jacques Philippe Eugene Paignon. Joseph Marie Vaudaux. Gaspard Gagnière.
Looms	1687	3rd July 1861	Joseph Woollatt.
Certain improvements in looms for weaving	1805	18th July 1861	Arthur Elliott.
Machinery or apparatus for manufacturing woven seamless gloves. (*Communicated by Messrs. Jean Bezon and Alphonse Berthod.*)	1827	20th July 1861	Edward Thomas Hughes.
Improved apparatus for punching or marking the pattern cards used in weaving figured fabrics.	1862	24th July 1861	Henry Cook.
An improved circular loom for weaving cloths of all kinds either plain or ornamented.	1930	3rd Aug. 1861	Pierre Habert.
Certain improvements in looms for weaving (*Communicated by Frederick May.*)	2008	13th Aug. 1861	John Casper Horner.
Looms for weaving (*See* "WEAVING.—CARPETS.")	2072	20th Aug. 1861	James Platts.
Improved machinery for the manufacture of pleated, ribbed and looped fabrics.	2090	21st Aug. 1861	Abijah Jervis.
An improvement in the ornamentation of woven and other fabrics for garments and parts of garments. (*See* "CEMENTED FABRICS.")	2170	31st Aug. 1861	Henry Keach.
Certain improvements in looms for weaving	2210	5th Sept. 1861	Daniel Heyworth. John Heyworth.
Certain improvements in power looms for weaving	2231	6th Sept. 1861	John Brown.
Certain improvements in power looms for weaving	2237	7th Sept. 1861	William Ainsworth. Ellis Heap. William Fielding. Eli Openshaw.
Apparatus for manufacturing figured or ornamented stuffs with treadle power looms.	2275	13th Sept. 1861	Paul Dubrule.
Improvements in the manufacture of figured coloured fabrics and in machinery employed therein. (*Communicated by Edme Germain Bossuat.*)	2458	2nd Oct. 1861	Richard Archibald Brooman.
Buckets and portable water cisterns (*Weaving fabric used.*)	2481	4th Oct. 1861	Charles Mills Elstob.
Manufacture of flannel (*Communicated by Jean Pierre Manichon, junior.*)	2627	21st Oct. 1861	William Edward Gedge.
Looms for weaving	2651	23rd Oct. 1861	James Kirkwood.
Manufacture of woven fabrics	2717	30th Oct. 1861	Richard Rowntree Priestley.
Manufacture of cards for jacquard weaving (*Communicated by Louis Joseph Fillion.*)	2767	4th Nov. 1861	John Stewart.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Looms for weaving - - - - (*Two pieces at the same time.*)	2792	7th Nov. 1861	John Walmsley.
Looms for weaving - - - -	2882	16th Nov. 1861	Joseph Booth. Thomas William Chambers. James Chambers.
Textile and felted fabrics - - - -	2943	23rd Nov. 1861	Charles Henry Julius William Maximilian Liebmann.
Weaving, printing and otherwise treating certain ornamental fabrics.	2983	27th Nov. 1861	William Leck.
Improvements in the manufacture of nosebags and similar articles, and in apparatus connected with such manufacture. (*Communicated by Felix Loignon and Victor Casse.*)	3035	4th Dec. 1861	William Edward Gedge.
Manufacture of quilts and coverlets - - (*See* "FABRICS.")	3067	7th Dec. 1861	Thomas Lawes.
Looms for weaving - - - -	3110	11th Dec. 1861	John Leeming.
Looms for weaving - - - -	3122	13th Dec. 1861	Richard Ashworth. George Shepherd. John Cormac. John Dearden.
Improvements in looms for weaving and in the manufacture of cloth therefrom.	3155	16th Dec. 1861	David Chalmers.
Improvements in looms for the manufacture of sacks, knapsacks, mattress cases and other goods. (*Communicated by Charles Hippolyte Tessier.*)	3215	24th Dec. 1861	Louis Rudolph Bodmer.
Improvements in the manufacture of certain descriptions of woven, looped and bobbin net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
III.—Weaving Carpets, Velvets and other Pile and Terry Fabrics; Carpet Looms.			
Circular looms for weaving hats and other articles - (*Communicated by Mr. Louis Bonard.*)	182	23rd Jan. 1861	William Clark.
Embroidering or ornamenting woven fabrics, felts or other similar fabrics. (*Forming a pile fabric.*)	314	8th Feb. 1861	Adolphe Drevelle.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - -	765	27th March 1861	Edward Briggs. Samuel Fearnley.
Manufacture of looped pile fabrics - - -	926	15th April 1861	Frederick Lennard.
Certain improvements in the manufacture of piled fabrics - - - - -	938	17th April 1861	Thomas Jones. George Mallinson.
Improvements in looms for weaving pile fabrics such as "fur-warp" or "improved patent Axminster" carpeting, and in weaving the same.	1041	25th April 1861	John Stewart Templeton.
Manufacture of tapestry and other weavings -	1531	14th June 1861	Pierre Langlade.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - -	1769	15th July 1861	Edward Briggs. Samuel Fearnley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Means or apparatus employed in weaving	1931	3rd Aug. 1861	John Henderson. James Broadley.
An improvement or improvements in backing or covering the backs or foundations of raised and cut piled fabrics (*See* "ENAMELLING.")	1988	9th Aug. 1861	Charles Lee. Thomas Kemp Mace.
Manufacture of velvets and velveteens	2038	15th Aug. 1861	Charles William Kesselmeyer. Thomas Mellodew.
Looms for weaving	2072	20th Aug. 1861	James Platts.
Improved machinery for the manufacture of pleated, ribbed and looped fabrics.	2090	21st Aug. 1861	Abijah Jervis.
A new kind of artificial fur to be made by means of the jacquard or other loom with silk or other textile material. (*Communicated by Antoine Denis and Adolphe Mottet.*)	2126	26th Aug. 1861	Frederick Tolhausen.
Improvements in the manufacture or weaving of velvet or pile fabrics made entirely or partially of silk, and in looms used for that purpose.	2166	30th Aug. 1861	James Bishop.
Treatment of carpets (*See* "UPHOLSTERY.") (*Communicated by Jean Armand Edmond Poloncceau.*)	2808	8th Nov. 1861	John Henry Johnson.
Manufacture and ornamentation of textile fabrics	3036	4th Dec. 1861	James Hemingway.
Improvements in the manufacture of certain descriptions of woven, looped and bobbin net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
IV.—Knitting; Lace-making; Stocking Frames; Warp Fabrics; Nets and Meshed Fabrics.			
Certain improvements in knitting-machines (*Communicated by the McNary Knitting Machine Company.*)	536	2nd March 1861	Edward Joseph Hughes.
Circular knitting frames or machines	538	2nd March 1861	Frederick Wright.
Machinery or apparatus for the manufacture of bobbin net or twist lace	591	9th March 1861	Benjamin Walker. William Tilson.
Mode of and apparatus for knitting	831	4th April 1861	William Henry McNary.
Machinery for the manufacture of looped fabrics	984	20th April 1861	Samuel Burton Haskard. John Dean. Edward Dean.
Improvements in the manufacture of twist lace and in machinery employed therein	1061	27th April 1861	John Foster. Edward Herbert Bramley. Edwin Knutton.
Improvements in the manufacture of lace or net, and in the machinery employed therein	1130	4th May 1861	William Birks, senior. William Birks, junior. John Birks.
Manufacture of bobbin net or lace	1156	7th May 1861	William Birks, senior. William Birks, junior. John Birks.
Knitting machinery (*Communicated by James Green Wilson.*)	1250	16th May 1861	Alfred Vincent Newton.

[illegible]	Number of Patent	Date	Name of Patentee
[illegible]			
[illegible]	2586	7th June	[illegible]
[illegible]	2624	6th June	Henry Thomas Cave.
[illegible]	2678	10th June	William Smith.
[illegible]	2687	15th June	Henry Bernoulli Barlow.
[illegible]	2725	24th June	Alfred Topham. Joseph Topham. Jabez Topham.
[illegible]	2737	26th June	James Isaac Wells.
[illegible]	2814	9th July	Samuel Hall.
[illegible]	2842	16th Aug.	John Livesey.
[illegible]	2944	26th Aug.	Alfred Vincent Newton.
[illegible]	2942	7th Sept.	Herbert Redgate.
[illegible]	2967	13th Sept.	Marc Antoine François Mennons.
[illegible]	2969	12th Sept.	William Williams Clay.
[illegible]	2940	19th Sept.	William Clark.
Manufacture of bobbin net or twist lace	2507	8th Oct. 1861	William Catford. John Sherwood Wheatley.
Manufacture of twist lace made in twist lace machines.	2510	8th Oct. 1861	William Simpson.
Machinery or apparatus for the manufacture of elastic surgical stockings, socks, knee caps, belts, bands or other articles.	2709	29th Oct. 1861	William Savile.
Manufacture of lace	2728	30th Oct. 1861	Alfred Topham. Joseph Topham. Jabez Topham.
Production of curved and other forms in articles of lace.	2775	5th Nov. 1861	William Hall.
Improvements in the manufacture of looped fabrics and in machinery to be employed therein.	2799	7th Nov. 1861	John Hancock.
Knitting-machinery	2823	9th Nov. 1861	Archibald Turner.
Manufacture of lace	2892	18th Nov. 1861	William Cliff. Edwin Cliff.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Machinery or apparatus for the manufacture of looped fabrics	2899	18th Nov. 1861	Anthony John Mundella. William Onion.
Improvements in the manufacture of lace	3233	26th Dec. 1861	Nicolas Alphonse Burnier.
Improvements in the manufacture of certain descriptions of woven, looped and bobbin net fabrics, by the application of certain fibrous materials thereto.	3260	31st Dec. 1861	William Tongue.
V.—Weaving Fringes, Ribbons, &c.; Producing Braid.			
Looms for weaving ribbons and other fabrics	64	10th Jan. 1861	Charles Newsome.
An improved manufacture of belting (*Weaving or plaiting.*) (*Communicated by Charles Lezaire.*)	127	16th Jan. 1861	John Batley.
Looms used in the manufacture of ribbons and other fabrics.	311	7th Feb. 1861	John Beesley.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces, and for other purposes.	884	10th April 1861	John Caw, junior.
Manufacture of looped pile fabrics (*Narrow fabrics.*)	926	15th April 1861	Frederick Lennard.
Improved bands for transmitting motion to machinery. (*Communicated by Jean Joseph Thiberge.*)	949	18th April 1861	Charles Stevens.
Machines for making pointed tape trimming (*See* "SEWING.") (*Communicated by William Sparks Thomson.*)	997	22nd April 1861	George Washington Belding.
Machinery for cutting certain fabrics into strips (*For fringes.*)	1030	25th April 1861	Thomas Taylor.
Manufacture of frills, ruffles or frilled trimmings	1234	15th May 1861	Alexander Whyte. Malcolm Macdonald.
Manufacture of elastic web	1429	6th June 1861	Henry Turner. Thomas Yates.
An improvement or improvements in the manufacture of upholsterers' fringes. (*See* "UPHOLSTERY.")	1537	15th June 1861	Stephen Barnwell, junior.
Certain improvements in the manufacture of ornamental or fancy ribbons and in the machinery or apparatus connected therewith. (*See* "PRINTING.")	1609	22nd June 1861	Robert Ormerod.
Looms for weaving ribbons and other fabrics (*Communicated by Georges Duplay.*)	1766	13th July 1861	Frederick Tolhausen.
An improvement in or addition to the selvages of laces and other woven fabrics.	1804	18th July 1861	Samuel Tawell.
Improvements in textile fabrics for embroidery trimmings and other ornamental purposes, and machinery employed in making the fabrics into trimmings.	2043	16th Aug. 1861	John Livesey.
Improvements in ribbon looms (*Communicated by Messrs. Benoit Durand and Claude Crozet.*)	2223	6th Sept. 1861	Marc Antoine François Mennons.
Manufacture of upholsterers' trimmings	2285	14th Sept. 1861	George Dixon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Covering crinoline wire and other like substances -	2479	4th Oct. 1861	John Beesley.
Shuttles for weaving ribbons - - -	2483	4th Oct. 1861	John Pratt.
Machinery for weaving cords and ropes - - (*See* "ROPES.")	2557	14th Oct. 1861	Edouard René Marie Vigneron de la Jousselandière.
Apparatus for winding yarn or threads on the pin bobbins or spools used in smallware and ribbon looms - - - - - - - (*See* "WINDING.")	2585	17th Oct. 1861	Robert Smith. John Barnouin Rowcliffe.
An improvement or improvements in the manufacture of certain descriptions of brace webs known as india-rubber webs.	2602	18th Oct. 1861	Benjamin Taylor.
Braiding-machines - - - - - - (*Communicated by Thomas James Sloan.*)	2604	18th Oct. 1861	John Henry Johnson.
Improvements in the manufacture of pointed trimming and in the machinery for manufacturing pointed trimming. (*See* "FINISHING.")	2833	11th Nov. 1861	Chauncy Orrin Crosby.
Machinery for the manufacture of chenille and other circular pile fabrics.	3040	4th Dec. 1861	Henry George Hacker.
VI.—Shuttles.			
Improvements in the manufacture of woven fabrics and in the machinery employed therein. (*Communicated by Monsieur Eugène Mouline.*)	278	2nd Feb. 1861	Edward Thomas Hughes.
Shuttles for weaving - - - - - (*Communicated by Monsieur Philibert Alexis Trambouze.*)	303	6th Feb. 1861	Edward Thomas Hughes.
Apparatus for weaving - - - - -	541	2nd March 1861	Sebastiano Botturi, commonly called Sebastien Botturi.
Shuttles for weaving - - - - -	739	23rd March 1861	Henry Wickens.
An improvement applicable to shuttles for the saving of cop waste - - - - -	900	12th April 1861	Silas Covell Salisbury. Josiah Turner.
Improvements in cop tubes and partial tubes, and in apparatus for holding them on to the spindles of mules for spinning and doubling, also improvements in the construction of the skewers for shuttles and winding machines.	1282	20th May 1861	John Sidebottom.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Machinery for the manufacture of fishing and other nets. (*Communicated by Messrs. Felix Marie Baudouin, and Achille Baudouin and Jean Baptiste François Jouannin.*)	2340	19th Sept. 1861	William Clark.
Shuttles for weaving ribbons - - - -	2483	4th Oct. 1861	John Pratt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
VII.—Temples, Pickers, Healds and Reeds.			
Manufacture of healds or harness for weaving -	178	23rd Jan. 1861	David Smithies. John Jackson.
Self-acting temples - - - - -	315	8th Feb. 1861	Thomas Blezard. James Blezard.
Improvements in healds for weaving fibrous materials and in machinery for making the same.	332	9th Feb. 1861	John Lockwood.
Machinery or apparatus for making healds - -	463	23rd Feb. 1861	George Ward. James Gaskell.
Certain improvements in the manufacture of healds for weaving and in machinery or apparatus connected therewith.	527	1st March 1861	Roger Howorth.
Apparatus for weaving - - - -	541	2nd March 1861	Sebastiano Botturi, commonly called Sebastien Botturi.
Improvements in looms and in apparatus connected therewith. (*Temples.*)	664	16th March 1861	John Holden.
Temples for looms - - - - -	873	9th April 1861	Abraham Tweedale. John Tweedale. Samuel Taylor.
Manufacture of healds - - - -	1171	9th May 1861	John Yeadon.
Manufacture of healds - - - -	1183	10th May 1861	Thomas Curtis.
Improvements in looms for weaving and in apparatus connected therewith. (*Temples.*)	1225	14th May 1861	James Bullough. John Bullough.
Looms for weaving - - - -	1447	7th June 1861	William Wood.
Machinery or apparatus for raising serrated surfaces on rollers - - - - - - (*Temple rollers.*)	1536	15th June 1861	Thomas Knowles. Peter Aldred. John Haworth.
Manufacture of shuttle pickers - - -	1838	22nd July 1861	John Bland Wood.
Means or apparatus employed in weaving - - (*Forming picker spindles.*)	1931	3rd Aug. 1861	John Henderson. James Broadley.
Construction of temples or stretching rollers for looms. (*Communicated by Julien Paty.*)	2138	27th Aug. 1861	Richard Archibald Brooman.
Machinery for manufacturing healds or harness used in looms for weaving - - -	2530	10th Oct. 1861	William Mould. John Hall. Samuel Cook. William Henry Hacking.
Improvements in healds or heddles for weaving and in the machinery or apparatus for making the same.	2549	12th Oct. 1861	John Carter Ramsden.
Pickers used in looms for weaving - - -	2566	15th Oct. 1861	William Bland.
Improvements in the manufacture of printed yarns, and in the application of certain fibrous materials to the manufacture of certain descriptions of yarns and threads. (*Heald yarns.*)	2842	12th Nov. 1861	William Tongue.
Harness to be used in the manufacture of all textile fabrics.	2858	13th Nov. 1861	Isaac Thomas Townsend.
Manufacture of loom pickers - - -	2932	22nd Nov. 1861	William Ambler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
VIII.—Letting-off and Taking-up Motion; Stopping Looms.			
Looms for weaving - - - - - (*Stop motion.*)	87	11th Jan. 1861	Matthew Andrew Muir. James McIlwham.
Looms for weaving - - - - - - (*Letting-off motion.*)	88	12th Jan. 1861	William Bullough.
Improvements in the manufacture of woven fabrics and in the machinery employed therein. (*Communicated by Monsieur Eugène Mouline.*)	278	2nd Feb. 1861	Edward Thomas Hughes.
Looms - - - - - - - (*Break-apparatus.*)	301	5th Feb. 1861	John Leeming.
Means or apparatus employed in weaving - - (*Reversing the picking motion.*)	604	11th March 1861	John Hirst, junior. James Hollingworth.
An improved regulator for looms - - - (*See "SPINNING."*) (*Communicated by Jean Jacques Moeckel.*)	645	15th March 1861	Charles Stevens.
Improvements in looms and in apparatus connected therewith. (*Break.*)	664	16th March 1861	John Holden.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - -	765	27th March 1861	Edward Briggs. Samuel Fearnley.
Improvements in looms for weaving figured fabrics and in apparatus connected therewith. (*Communicated by Samuel Thomes Thomas.*)	854	6th April 1861	John Henry Johnson.
Looms for weaving - - - - - -	973	19th April 1861	William Hudson. Christopher Catlow.
Improvements in looms for weaving and in apparatus connected therewith - - - (*Stop motion.*)	1225	14th May 1861	James Bullough. John Bullough.
Construction of power looms - - - (*Unrolling warp; rolling cloth; stopping.*) (*Communicated by Mr. François Loret Vermeersch.*)	1255	16th May 1861	Bernard Hudson.
Certain improvements in looms for weaving - (*Arresting the motion.*) (*Communicated by Hyppolite Victor Hermite.*)	1290	21st May 1861	Henry Bernoulli Barlow.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - -	1769	15th July 1861	Edward Briggs. Samuel Fearnley.
Looms for weaving - - - - - -	2882	16th Nov. 1861	Joseph Booth. Thomas William Chambers. James Chambers.
Looms for weaving - - - - - -	3122	13th Dec. 1861	Richard Ashworth. George Shepherd. John Cormac. John Dearden.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEIGHING-MACHINES, SCALES, INDICATING WEIGHT, ASCERTAINING SPECIFIC GRAVITY.			
Weighing-machines - - - - (*Communicated by J. Charles Maag, fils.*)	77	11th Jan. 1861	William Edward Gedge.
Scale beams and weighing-machines - -	81	11th Jan. 1861	Henry Pawson.
Improvements in spring balances or weighing-machines and in dynamometers.	909	13th April 1861	John Silvester.
Weighing-machines - - - -	954	18th April 1861	James Bryson.
Obtaining and applying motive-power by aëro-hydraulic means. (*For scales.*)	1224	14th May 1861	Thomas Charles Boutet.
Apparatus for indicating the speed, flow, pressure and vacuum of liquids, fluids and other bodies - (*Application to weighing-machines.*)	1419	6th June 1861	John Bailey. William Henry Bailey.
An improved weighing-machine - - - (*Communicated by Charles Thuau.*)	1878	27th July 1861	William Edward Gedge.
Spring balances or weighing apparatus - -	2025	14th Aug. 1861	Thomas Silvester.
Machines for weighing and measuring corn and other grain. (*Communicated by Joseph Alexandre Auguste Catenot.*)	2279	13th Sept. 1861	Richard Archibald Brooman.
An improved apparatus for purifying, measuring and weighing grain and oleaginous seeds.	2686	26th Oct. 1861	Jean Louis Sicard.
Machinery or apparatus for preparing grain for brewers. (*Weighing, &c.*)	2710	29th Oct. 1861	Richard Gibbon.
An improved process for correctly transmitting the effect of the main levers in platform scales to the steelyard or weighing beam of platform scales.	2738	1st Nov. 1861	William James Williams.
Certain kinds of weighing-machines, balances and scale beams.	2766	4th Nov. 1861	John Archer.
Apparatus for indicating the pressure of steam and gases, the amount of vacuum, the flow of fluids, the weight of materials and the speed of bodies either revolving or traversing, and also the employment of aluminum or its alloys in the manufacture of the same - - -	3058	6th Dec. 1861	John Bailey. William Henry Bailey.
Improvements in the manufacture of spirituous liquors and in apparatus employed therein. (*Ascertaining specific gravity.*)	3127	13th Dec. 1861	Eduard Claude Barbotte De Beaulieu.
Improved modes of constructing balances, weigh-bridges and other weighing-machines.	3177	18th Dec. 1861	Jean Marie Hospice Auguste Taurines.
WHEELS FOR CARRIAGES; RAILWAY WHEELS; WHEEL TIRE, &c.			
An improved method of constructing wooden wheels. (*Partly communicated by F. M. Gibson.*)	7	2nd Jan. 1861	Daniel Alley Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Improvements in hardening the surfaces of the rails of railways and the surfaces of the tyres of railway wheels, and in charring the surfaces of timber to be used for railway sleepers and other purposes.	68	10th Jan. 1861	William Longmaid.
Improvements in apparatus for locomotion and in the construction of certain wheels employed therein and of levels used therewith, such improved wheel and level being also applicable for other purposes. (*Communicated by José Galleyos.*)	137	17th Jan. 1861	Michael Henry.
Railway wheels - - - - -	150	19th Jan. 1861	Joseph Bond.
An improved method of manufacturing tyres for wheels, hoops and rings. (*Communicated by the Société des Forges.*)	177	22nd Jan. 1861	Richard Archibald Brooman.
Tires of wheels for vehicles used on common roads -	191	24th Jan. 1861	Rebecca Thomas.
Railway carriage wheels - - - - (*Communicated by Ebenezer A. Lester.*)	226	28th Jan. 1861	William Edward Newton.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles. (*Washers for wheels.*)	397	18th Feb. 1861	Robert Offord, junior.
Construction of wheels - - - -	422	20th Feb. 1861	George Parsons.
Manufacture of railway and other wheels - -	435	21st Feb. 1861	Daniel Evans.
Moulding wheels and other metal articles - -	521	1st March 1861	William Galloway. John Galloway.
Construction of carriage wheels - - -	582	7th March 1861	John Edwards.
Apparatus for lubricating the moving parts of machinery.	608	12th March 1861	Auguste Aerts.
Moulding and shaping metals - - - (*Wheels.*)	639	14th March 1861	James Hunter.
Certain improvements in the method of securing tyres for rolling stock on their wheels.	674	18th March 1861	Alfred Krupp.
Manufacture of cast steel tires - - -	751	25th March 1861	John Spencer, junior. Michael Spencer.
Machines worked by concentrated power - -	770	28th March 1861	François Chevillard.
Improvements in street railways and wheels and apparatus to be used therewith.	830	4th April 1861	William Albert Shepard.
Manufacture of iron wheels - - -	1033	25th April 1861	Pierre Casimir Lefol.
Construction of hoops or tyres for wheels to be used on railways and tramways - - -	1060	27th April 1861	John Poole. William Milward.
Improvements in the manufacture of rails, bars, plates, cylinders, vessels, axletrees, cranks, wheel tyres and other articles of wrought iron or steel, and also in the machinery used in such manufactures - - - - -	1085	1st May 1861	Frederick Joseph Bramwell. William Owen.
Improvements in the manufacture of wheels and in apparatus or machinery to be employed therein.	1106	2nd May 1861	Peter Wright.
Improvements in engines and implements for ploughing and cultivating land, parts of which improvements are also applicable to other purposes. (*Making travelling wheels hollow.*)	1125	4th May 1861	William Collett Homersham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.— *continued.*			
Improvements in the manufacture of railway wheels, tires and other annular cylindrical and hollow articles from cast steel or malleable cast iron, and in the machinery or apparatus employed therein	1129	4th May 1861	Edward Brown Wilson. William Tijou.
Ploughs and other agricultural implements	1221	13th May 1861	Richard Hornsby, junior.
Machinery or apparatus for altering the position of locomotive engines, carriages and goods, and preventing injury and accidents on railways.	1258	17th May 1861	Thomas Dunn.
Construction of carriage wheels	1294	21st May 1861	Youngs Parfrey.
Railway wheels and tyres	1635	26th June 1861	Henry Allason Fletcher.
Traction engines	1744	10th July 1861	Thomas Tertius Chellingworth. Jonathan Thurlow.
Improvements in horse rakes and cultivators, and in wheels for the same and other carriages	1767	13th July 1861	Thomas Smith. George Taylor.
Construction of railway wheels	1891	29th July 1861	William Melrose.
Manufacture of horse shoes, boot heels, wheel tyres, rails and safes	1993	10th Aug. 1861	Alexander Southwood Stocker. Alexander Richmond Stocker.
Construction of carriage wheels	2145	28th Aug. 1861	Samuel Carpenter.
Improvements in the manufacture of tyres for railway wheels and in the apparatus employed therein, part of the said improvements being applicable to the consolidating or rendering homogeneous iron and steel for other purposes.	2183	31st Aug. 1861	Goran Frederick Goransson.
Improvements in wheels for facilitating the progress of carriages on common roads, and in the means of propelling the same.	2212	5th Sept. 1861	John Taylor Pensam.
Manufacture of wheel tyres, hoops and other similar articles	2226	6th Sept. 1861	William Allott. John Thelwall.
Railway wheels and railway brakes	2261	11th Sept. 1861	Joan Bowns.
Improvements in the manufacture of wheels and in securing tyres on or to wheels.	2365	21st Sept. 1861	William Stableford.
Apparatus for preventing or lessening the slip of the driving wheels of locomotive engines. (*Communicated by Samuel Thompson Armstrong and Jared Wilson Post.*)	2517	9th Oct. 1861	Edward Haslewood.
Construction of railway wheels	2571	16th Oct. 1861	John Dixon. Robert Clayton.
Improvements in traction engines and wheels, and in carriages to be drawn by traction engines, which improvements in wheels are applicable to common road carriages generally.	2655	23rd Oct. 1861	John Marshall.
Construction of railway wheels and wheel tyres	2687	26th Oct. 1861	Francis Wrigley.
Manufacture of wrought iron wheels	2760	2nd Nov. 1861	Thomas Lockie.
Improvements in the construction of the wheels of traction engines and in the mode of adaptation to such engines.	2904	19th Nov. 1861	Jesse Lee.
Improvements in making circular blooms such as are used in the manufacture of tyres and for other purposes	2937	22nd Nov. 1861	Charles Bartholomew. John Heptinstall.
Improvements in the manufacture of railway wheels and in apparatus to be used therein.	3000	28th Nov. 1861	John Martin Rowan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Improvements in traction and other engines, and in wheels for traction engines and other carriages, and in giving motion to ploughs and other agricultural machines - - - - -	3045	4th Dec. 1861	Abraham Pullan. William Lake.
Railway wheels and tyres - - - - -	3117	12th Dec. 1861	William Smith Longridge.
Improvements in boilers for the generation of steam, in engines for applying steam for motive-power purposes, and in wheels and ways for steam carriages to run on.	3211	21st Dec. 1861	Fraser Selby.
Improvements in the wheels of railway engines and carriages and in the machinery or apparatus to be used in making the same.	3222	24th Dec. 1861	Thomas Edward Vickan.
WHEELS FOR MACHINERY; COG-WHEELS, PULLEYS, CAMS, &c.			
Improvements in apparatus for locomotion and in the construction of certain wheels employed therein and of levels used therewith, such improved wheel and level being also applicable for other purposes. (*Communicated by José Gallegos.*)	137	17th Jan. 1861	Michael Henry.
Construction and arrangement of bearings and grease boxes for shafts and axles, applicable also to the bosses of wheels. (*Communicated by José Gallegos.*)	245	11th Feb. 1861	John Henry Johnson.
Moulding wheels and other metal articles - -	521	1st March 1861	William Galloway. John Galloway.
Washing-machines - - - - - (*Cam.*)	798	1st April 1861	George Edmondson.
Reaping and mowing machines - - - (*Cams.*)	824	3rd April 1861	Adam Carlisle Bamlett.
Improvements in looms for weaving figured fabrics and an apparatus connected therewith. (*Cams.*) (*Communicated by Samuel Thomes Thomas.*)	854	6th April 1861	John Henry Johnson.
Improvements in electro-magnetic telegraphs and in apparatus connected therewith. (*Cam.*)	858	8th April 1861	Henry Wilde.
Improved apparatus for transmitting motion to machinery to be driven by horse power.	1027	24th April 1861	Edward Hammond Bentall.
Mode of hardening and tempering crinoline flattened wire or sheet steel. (*Constructing the "swift" or wheel.*) (*Communicated by Mr. Edwin Goodwin.*)	1038	25th April 1861	Robert Gray.
Apparatus for converting circular or rotary motion into alternate rectilinear motion. (*Forming toothed pinion slightly oval.*) (*Communicated by Mr. François Normand.*)	1334	27th May 1861	George Henry Birkbeck.
Certain improvements in machines for planing, boring and turning - - - - - (*Wheels and puileys.*)	1584	20th June 1861	James Fletcher. John William Fuller.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
An improvement or improvements in the manufacture of window sash pulleys, side pulleys, screw pulleys and upright pulleys.	1696	3rd July 1861	Joseph Terry.
Improvements in the manufacture of piled fabrics and in the machinery or apparatus employed in manufacturing piled and other fabrics - -	1769	15th July 1861	Edward Briggs. Samuel Fearnley.
Improvements in means or apparatus employed in washing, wringing and mangling fabrics, and in the manufacture of part or parts of such apparatus - - - - - - -	2115	24th Aug. 1861	Jeremiah Driver. Joseph Jessop.
Improvements in the construction of casters - (*Vulcanite rollers or wheels.*)	2219	5th Sept. 1861	Charles Weightman Harrison.
Looms for weaving - - - - - -	2882	16th Nov. 1861	Joseph Booth. Thomas William Chambers. James Chambers.
Improvements in toothed wheels and in the apparatus used in their manufacture. (*Communicated by Jean Baptiste Buissart and Therese Leome Levesque.*)	2945	23rd Nov. 1861	John Henry Johnson.
Certain improvements in winding or driving drums or pulleys - - - - - - -	3029	3rd Dec. 1861	James Burrows. Joseph Dougan.
WINDING, REELING AND BALLING YARN OR THREAD.			
Machinery or apparatus for winding yard or thread	274	1st Feb. 1861	Morris Pollok, junior.
An improved construction of reel for velvet or other ribbons. (*See* "FINISHING.")	423	20th Feb. 1861	William Halse.
Machinery or apparatus for preparing and spinning of cotton, wool and other fibrous substances -	510	28th Feb. 1861	Robert Hoyle. Henry Spencer. Thomas Holland.
Improved machinery or apparatus for the manufacture of chenille. (*Winding silk on to bobbins.*)	934	16th April 1861	Charles Fletcher.
Improvements in cop tubes and partial tubes, and in apparatus for holding them on to the spindles of mules for spinning and doubling, also improvements in the construction of the skewers for shuttles and winding machines.	1282	20th May 1861	John Sidebottom.
Mechanism or apparatus for locks and bolts and other fasteners, gun locks and gun breeches, catches for weaving, shuttles, double screws, rifles, pistols, other fire-arms and ordnance, weaving-traversers, winders, sewing, weaving, netting and other machines, and self-acting claws and grapplers.	1420	6th June 1861	Henry Thomas Coles.
Machinery or apparatus for spinning, doubling, and winding cotton and other fibrous materials	1568	18th June 1861	Thomas Webb. James Craig.
Apparatus for winding yarn or threads on the pin bobbins or spools used in smallware and ribbon looms - - - - -	2585	17th Oct. 1861	Robert Smith. John Barnouin Roweliffe.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDING, &c.—*continued.*			
Improvements in machinery or apparatus for preparing, spinning or doubling cotton, silk and other fibrous materials, parts of which improvements are applicable for winding and other purposes.	2777	5th Nov. 1861	Richard Fethney.
Improvements in machinery or apparatus for spinning fibrous materials - - - -	3276	31st Dec. 1861	Alexander Edward. James Edward.
WINDOW BLINDS AND SUN SHADES.			
Sun blinds or shades - - - - -	268	1st Feb. 1861	James Miller Park.
Improved iron blinds - - - - (*Communicated by Marie Colombe Duclos.*)	504	27th Feb. 1861	Charles Stevens.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces and for other purposes.	884	10th April 1861	John Caw, junior.
Roller blind apparatus - - - -	896	11th April 1861	Richard Smith.
Window frames and blinds - - -	1627	25th June 1861	John Brown.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass. (*Ornamenting blinds.*)	1753	11th July 1861	William Wilkinson.
Improvements in the manufacture of metallic tubes and in coating or plating metals. (*For window blinds.*)	2944	23rd Nov. 1861	John Weems.
An improved lath for Venetian blinds - -	3176	18th Dec. 1861	Edmund Pace.
Improved apparatus for winding, holding and letting go cords, bands or chains particularly applicable to window blinds.	3268	31st Dec. 1861	John Haslam.
WINDOWS AND SASHES; WINDOW FRAMES AND SHUTTERS; GLAZING.			
A spring window supporter - - - (*Communicated by John Rogers.*)	60	10th Jan. 1861	Joseph Alvin Munn.
Apparatus for supporting and working sash windows and other similar sliding or traversing details.	86	11th Jan. 1861	Robert Smellie.
An improvement in window fastenings - -	105	14th Jan. 1861	Henry Weaber.
Certain improvements in shutters - - -	184	23rd Jan. 1861	James Deakin. John Cresswell.
Adaptation of india-rubber and the compounds thereof to various parts of public and private carriages or vehicles. (*Window frames.*)	397	18th Feb. 1861	Robert Offord, junior.

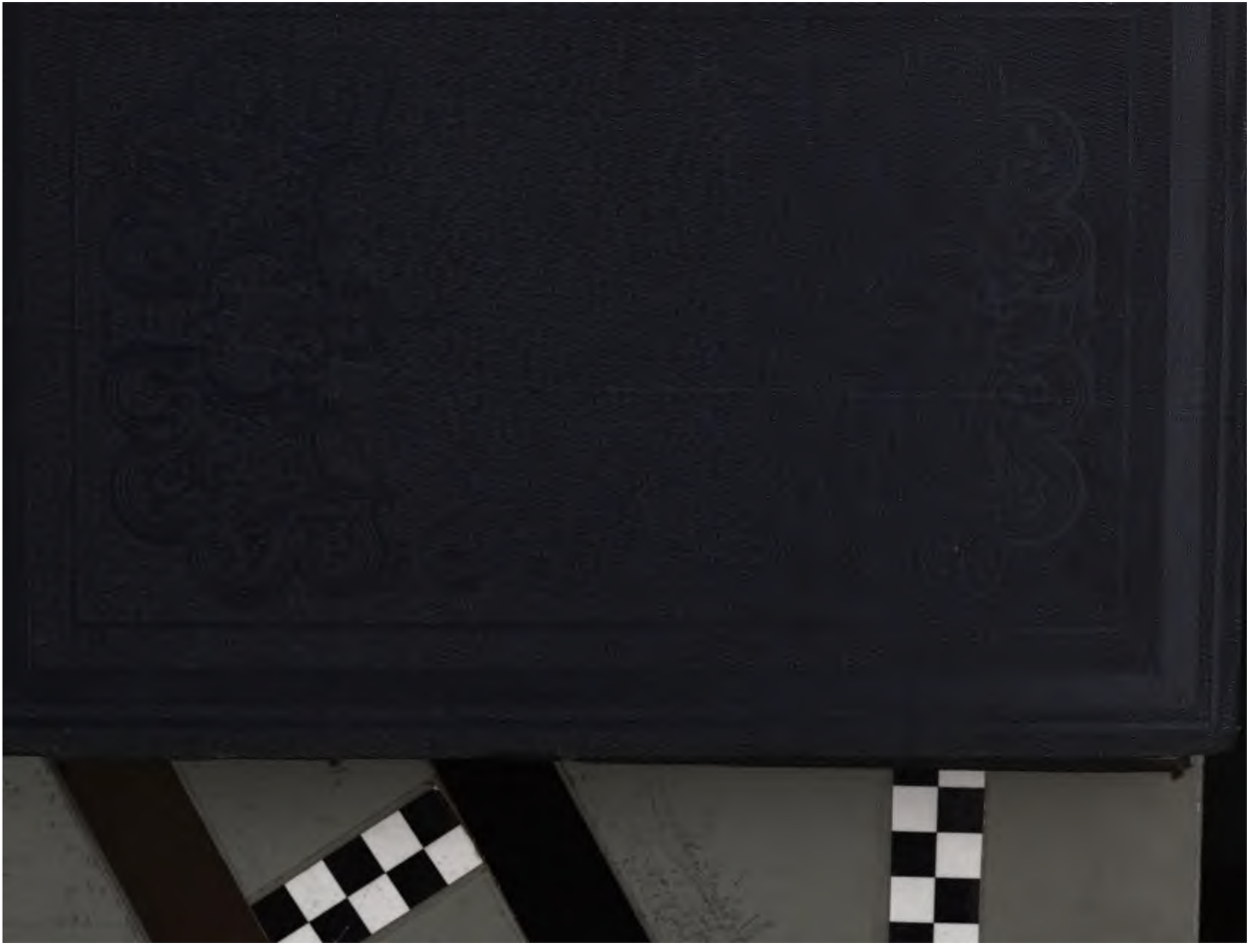
Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDOWS, &c.—*continued.*			
Improved iron blinds - - - - (*Or shutters.*) (*Communicated by Marie Colombe Duclos.*)	504	27th Feb. 1861	Charles Stevens.
Construction of casement or French windows -	598	11th March 1861	Prosper Pierre Mataran.
Improvements in sash frames and sashes, and in balance weights to be used therewith, which said balance weights may be also employed with ordinary sashes or shutters or for any similar purpose.	656	15th March 1861	James Deakin.
New or improved machinery or apparatus for fixing the windows of railway and other carriages at any required height.	675	18th March 1861	John Arrowsmith.
Self-acting window fasteners - - -	683	19th March 1861	Samuel James Wilkinson. George Frederick Lee Meakin.
Window-frames commonly called casements or French lights.	784	30th March 1861	John Rattray.
A new or improved fastening which said fastening is applicable to the fastening of windows and also to the fastening of belts, garters, braces and other articles of dress - - -	871	9th April 1861	William Westbury. Edward Cooke.
Improvements in window seats for the prevention of accidents.	1346	30th May 1861	William Brown Rooff.
Certain improvements in the construction of window-sash fasteners.	1394	4th June 1861	Herbert Allman.
Shop fronts - - - - - -	1440	7th June 1861	William Riddle. Henry Godfrey Coombs.
Construction and fittings of sliding window sashes	1519	13th June 1861	Edward Bing.
Construction of iron windows or casements -	1620	25th June 1861	Louis Pierre.
Window frames and blinds - - -	1627	25th June 1861	John Brown.
An improvement or improvements in suspending and raising and lowering window sashes.	1630	26th June 1861	William Holland.
An improvement or improvements in the manufacture of window sash pulleys, side pulleys, screw pulleys and upright pulleys.	1686	3rd July 1861	Joseph Terry.
A safety window sash fastener and draft excluder -	1719	6th July 1861	John Edward Reid.
Improvements in manufacturing and ornamenting brushes, parts of which are applicable to ornamenting baskets and articles of furniture, and to protecting silver on glass. (*Ornamenting windows.*)	1753	11th July 1861	William Wilkinson.
Construction of window sashes - - -	1961	7th Aug. 1861	David Miles.
Construction of doors, gates and shutters principally applicable for fire-proof buildings.	1973	8th Aug. 1861	William Stratford Hogg.
Improvements in glazing horticultural buildings, the roofs of railway stations and other erections.	2235	6th Sept. 1861	Thomas Goode Messenger.
Improvements in sash fastenings, which improvements are also applicable to other purposes.	2273	13th Sept. 1861	William Farlar.
Construction of roof and other lights - -	2276	13th Sept. 1861	Robert Smith. Benjamin Brooks. James Smith.
Improvements in the fittings and method of hanging window sashes to facilitate their removal for cleaning and other purposes.	2332	18th Sept. 1861	John Gurman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDOWS, &c.—*continued.*			
Rendering columns, girders, doors, shutters and other parts of buildings fire-proof.	2449	1st Oct. 1861	William Stratford Hogg.
Constructing fire-proof doors and window shutters	2509	8th Oct. 1861	George Glover.
Manufacture of elastic fabrics - - - (*Springs for windows.*)	2779	5th Nov. 1861	Edward Bowra.
An improved mode of fastening doors and for other similar purposes. (*Window frames.*)	2915	20th Nov. 1861	Joseph Cooper Croxford.
An improved tool or apparatus for cleaning windows and glasses.	3200	20th Dec. 1861	Robert Wailes.
WIRE-WORKING; WIRE-ROPES, WIRE GAUZE, TELEGRAPH CABLES.			
Insulating the conducting wires used for telegraphic purposes.	47	8th Jan. 1861	Hermann Hirsch.
Manufacture of telegraphic cables - - -	175	22nd Jan. 1861	John Chatterton. Willoughby Smith.
Manufacture of umbrellas and parasols - -	244	30th Jan. 1861	Arthur Boyle.
Construction of cables for telegraphic purposes -	260	31st Jan. 1861	Stephen Moulton.
Certain applications of chapapote and its products, and of the same combined with other substances and of materials treated therewith to various purposes in manufactures and the useful arts.	271	1st Feb. 1861	José Joaquin De Arrieta.
Improvements in umbrella and parasol furniture and in the means or apparatus employed in treating umbrella and parasol furniture, parts of which are also applicable in heating steel wire ribs, rods or tubes for other purposes - -	277	2nd Feb. 1861	George Holme Spencer. Richard George Cook.
Telegraph cables - - - - -	322	8th Feb. 1861	John Branscombe.
Improvements in the construction of submarine telegraphic cables and in the means of protecting the same from undue strain or wear and tear.	329	9th Feb. 1861	David Ker.
Improvements in healds for weaving fibrous materials and in machinery for making the same.	332	9th Feb. 1861	John Lockwood.
Electric telegraph conductors - - -	353	12th Feb. 1861	Alexander Parkes.
Manufacture and mode of laying down submarine electro-telegraphic cables.	481	25th Feb. 1861	George Clark.
Insulating and covering the conducting wires used for telegraphic purposes.	549	4th March 1861	Hermann Hirsch.
Telegraphic cables - - - - -	579	7th March 1861	Thomas William Evans, M.D.
Preparing and annealing iron wire - - -	726	22nd March 1861	James Graham.
Construction of wire and other similar fences -	730	22nd March 1861	John Potter.
Ropes or cables for submarine or other electric telegraphs and for the rigging of ships and other purposes - - - - -	748	25th March 1861	John Morgan. Alfred Thomas Jay. Edmund Edwards. Joseph Tilston.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WIRE-WORKING, &c.—*continued.*			
Submarine telegraph cables	758	25th March 1861	John Chatterton. Willoughby Smith.
Manufacture and insulation of telegraph cables and telegraphic wires in general, and of apparatus for laying marine telegraph cables.	800	1st April 1861	Richard Searle.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For insulating wire.*)	853	6th April 1861	Thomas Goulston Ghislin.
Construction of ceilings and partition and other walls. (*Communicated by Jules Mathieu Dubrot.*)	856	8th April 1861	William Edward Gedge.
Manufacture of metallic cord suitable for "crinoline," blind cord, bell pulls, suspending pictures, laces, and for other purposes.	884	10th April 1861	John Caw, junior.
Improvements in the method of and machinery for preparing india-rubber and other similar gums for insulating telegraphic wires, and in machinery for laying or applying strips of india-rubber and other similar gums or strips of fibrous or textile material on to telegraphic wires.	924	15th April 1861	Thomas Miller.
Mode of hardening and tempering crinoline flattened wire or sheet steel. (*Communicated by Mr. Edwin Goodwin.*)	1038	25th April 1861	Robert Gray.
Hardening and tempering steel	1039	25th April 1861	Samuel Fox.
Imitation of gold and silver embroidery (*Wire gauze.*) (*Communicated by Jean Joseph Germain Marius Arthaud.*)	1101	2nd May 1861	William Clark.
Electric telegraphs	1113	3rd May 1861	Owen Rowland.
Construction of electric telegraph cables or ropes	1329	27th May 1861	Charles Stewart Duncan.
Improvements in the manufacture of insulators for telegraphic wires, and in materials and machinery for coating telegraphic wires	1406	4th June 1861	Heinrich Gottlieb. Bernhard Roeber.
Improvements in the pointing of steel or other wire for teeth of cards and in setting and fixing such or similar teeth into sheets or fillets, which improvements are applicable to the pins for hackles and gills, and in part to the pointing of needles.	1599	21st June 1861	Thomas Richards Harding.
Mode of insulating and covering wire	1806	18th July 1861	Charlest West.
Joining wire for telegraphic conductors and other purposes	1907	31st July 1861	John Rylands. Thomas Glazebrook Rylands. Peter Rylands.
Certain improvements in the construction of straining pillars or posts for wire or other strained fencing, and in the apparatus to be adapted thereto for straining or tightening the wires or strands.	1942	5th Aug. 1861	John Potter.
Improvements in machinery for doubling and twisting yarns and threads, and for manufacturing wire rope. (*Communicated by Mr. Antoine Ratignez.*)	1967	7th Aug. 1861	Louis William Viollier.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WIRE-WORKING, &c.—*continued.*			
Machinery for the manufacture of skirts usually called crinoline skirts.	2242	7th Sept. 1861	Herbert Redgate.
Apparatuses for stretching, supporting and uniting telegraph wires. (*Communicated by Charles Pougnaire and Joseph Stephane Bourcy.*)	2310	16th Sept. 1861	Richard Archibald Brooman.
Covering crinoline wire and other like substances -	2479	4th Oct. 1861	John Beesley.
Improvements in apparatuses for the production of galvanic and magneto-electric currents, and in machinery employed in making some of the apparatuses. (*Winding wire on fibrous materials.*)	2656	23rd Oct. 1861	Isac Louis Pulvermacher.
Improvements in magnets, induction coils, and in insulating wire and metal for electric and other purposes - - - - - -	2661	24th Oct. 1861	Timothy Morris. Robert Weare. Edward Henry Cradock Monckton.
An improved mode of jointing or connecting telegraph wires, which is also applicable to jointing or connecting signal wires, fencing wires and other wires or rods.	3109	11th Dec. 1861	John Potter.
Submarine electric telegraphic cables - -	3170	18th Dec. 1861	William Dicey.
Improvements in armour and in making and applying the same for protecting wood and iron ships of war and batteries. (*Wire ropes and belts.*)	3182	19th Dec. 1861	William Tate.
Improved machinery for the manufacture of laid and other twine, lines, ropes, bands and other cordage whether made of hemp, flax or other fibrous substances, or of wire.	3258	30th Dec. 1861	John Bellamy Payne.
WOOD AND VENEERS; ARTIFICIAL WOOD.			
A new paste made from wood to be used in the manufacture of various articles, together with the apparatus employed in the preparation of the same. (*Communicated by Mr. Loyer.*)	112	15th Jan. 1861	Charles Stevens.
The application of a paste of whatever wood to any kind of ornamental and other mouldings without the least admixture of any other materials or use of any chemical agent. (*Communicated by Monsieur Aloise Eydt Miller.*)	217	28th Jan. 1861	James Clark.
Carving or figuring wood - - - - - (*Communicated by Emile Constant Adrien Brehon.*)	293	4th Feb. 1861	Richard Archibald Brooman.
Machinery for preparing wood for boat building and other uses.	346	11th Feb. 1861	Nathan Thomson.
The manufacture of paper from a pulp obtained from wood and all other vegetable produce of a woody nature, by means of the isolation of the cellular fibres.	391	16th Feb. 1861	Ernest Henry Barré. Charles Mary Joseph Blondel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Wood, &c.—*continued.*			
Machinery for reducing wood into chips or shavings (*See* "Paper.")	459	23rd Feb. 1861	Armand Louis André Herbelot.
An improved process for obtaining and utilizing the chemical products of spent bark (commonly called "tan") and all other woody fibre, also improved apparatus to be employed therefor. (*See* "Distilling:—Bituminous.")	650	15th March 1861	William Lorberg.
Preparing, applying and adapting certain vegetable productions called eiklonia buccinalis, proteaceæ, juncus serratus, juncus trista and armyllideæ to further new purposes of manufacture, and certain modes to effect the same. (*For veneering; in imitation of bogwood and ebony.*)	853	6th April 1861	Thomas Goulston Ghislin.
Machinery for sawing wood and other substances - (*For fret or buhl work*).	1523	13th June 1861	The Honorable Cecil Duncombe.
An improved method of treating wood - - (*Communicated by Edmond Armand Louis D'Argy.*)	1199	11th May 1861	Richard Archibald Brooman.
Improvements in the production of paper pulp and in bleaching paper pulp and certain fabrics, also an apparatus for cutting wood applicable for carrying out part of the invention. (*Communicated by Marie Anne Pelagie Veronique Cauzique, formerly le Roux.*)	1822	19th July 1861	Michael Henry.
Tools for cutting shives and other conical blocks -	1829	20th July 1861	William Rice.
Machinery for cutting wood - - - (*Chasing, grooving, &c.*)	1846	23rd July 1861	Robert Thompson.
Improved machinery to be employed in the application of dowels to wood work. (*See* "Doors.")	1965	7th Aug. 1861	William Rodrigues Rogers.
Manufacture of articles of furniture by utilizing certain parts of the cedar tree in such manufacture which have heretofore been considered and treated as waste.	2012	13th Aug. 1861	Jacques Guillaume Remy.
Preparation, application and manufacture of peat - (*In place of wood.*)	2058	19th Aug. 1861	William Henry Smith.
Ornamenting wood in imitation of inlaid work -	2144	28th Aug. 1861	Thomas Bray.
Veneering presses - - - - -	2362	21st Sept. 1861	Charles Board.
A new or improved machine for mortising, tenoning, sawing, boring, drilling and grooving wood.	2416	27th Sept. 1861	James Kimberley.
Improvements in the treatment or preparation of certain foreign plants or vegetable substances, and in the application of the same to various useful purposes for which horn, shell, whalebone, indurated leather, fish skin, ivory, bone, hardwood and compounds of india-rubber or gutta-percha have hitherto been employed.	2482	4th Oct. 1861	Thomas Goulston Ghislin.
Ornamenting the covers of photographic albums, books, writing-cases and other like articles. (*Printing veneers.*)	2781	5th Nov. 1861	John Peter Bourquin.
Pegs, nails or like fastenings for uniting the soles of boots and shoes and other substances.	2881	16th Nov. 1861	James Grint.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WOOD, &c.—*continued.*			
Machinery or apparatus for cutting irregular and curvilinear forms in wood or other similar substances. (*Communicated by Robert Marcher.*)	**2912**	20th Nov. 1861	John Henry Johnson.
Machinery for boring wood and other materials used in the manufacture of brooms and brushes	3137	13th Dec. 1861	Henry Appleby. Henry Harrison.
For Sawing Wood, *see* "CUTTING." *For* Preserving Timber, *see* "PRESERVING WOOD."			

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